

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Callie Shoshio Examiner #: 75636 Date: 8/1/03
 Art Unit: 1714 Phone Number 305-0204 Serial Number: 101000, 384
 Mail Box and Bldg/Room Location: CP3-5D21 Results Format Preferred (circle): PAPER DISK E-MAIL
CP3-4W1 (mailbox)

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Aqueous Ink Jet Printable Compositions

Inventors (please provide full names): Song Wu, Larry R. Krepinski,

Kevin M. Lewandowski, Caroline M. Vitalis, Peter T. Elliot

Earliest Priority Filing Date: 11/15/01

US 20030144375

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

for this

Oligo(ether sulfone) please find the silyl-terminated

sulfopoly(ether ether thane) of claim 2?

(Closest art is printed out first.)

Produced by

Reacting sulfonated polyester diol with diisocyanate
and optionally diol in organic solvent to produce
isocyanate terminated oligomer then

Adding aminoalkyltrialkoxysilane to react with the
isocyanate groups

Then inverting reaction mixture into water +
removing solvent to produce the silyl-terminated
sulfopolyester-urethane)

STAFF USE ONLY

Type of Search	Vendors and cost where applicable
Sequence (#)	STN <u>\$496.55</u>
AA Sequence (#)	Dialog
Structure (#)	(7) (subset) QESTER/CDR
Bibliographic	(and) Link
Litigation	Lexis/Nexis
Fulltext	Sequence Systems
Patent Family	WWW/Internet
Other	Other (specify)

=> file reg

FILE 'REGISTRY' ENTERED AT 21:59:43 ON 08 AUG 2003
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=> display history full 11-

FILE 'HCAPLUS' ENTERED AT 20:25:00 ON 08 AUG 2003

L1 106645 SEA WU ?/AU
L2 116 SEA KREPSKI ?/AU
L3 1900 SEA LEWANDOWSKI ?/AU
L4 203 SEA YLITALU ?/AU OR YLITALO ?/AU
L5 1047 SEA ELLIOT ?/AU
L6 0 SEA L1 AND L2 AND L3 AND L4 AND L5
L7 10333 SEA ELLIOTT ?/AU
L8 1 SEA L1 AND L2 AND L3 AND L4 AND L7
D ALL
SEL L8 1 RN

FILE 'REGISTRY' ENTERED AT 20:30:00 ON 08 AUG 2003

L9 8 SEA (109-73-9/BI OR 395667-35-3/BI OR 533938-24-8/BI OR

FILE 'HCAPLUS' ENTERED AT 20:35:47 ON 08 AUG 2003

L10 18594 SEA INKJET? OR THINKJET? OR (INK? OR PRINT?) (3A) (JET OR
JETS OR JETTED OR JETTING#)
L11 109 SEA (SULFO OR SULPHO OR SULFONAT? OR SULPHONAT? OR
POLYSULFO OR POLYSULPHO OR POLYSULFONAT? OR POLYSULPHONAT
?) (3A) (URETHAN## OR POLYURETHAN##) (3A) (POLYESTER# OR
POLY(A)ESTER#) OR (SULFOPOLY OR SULPHOPOLY) (3A) ESTER# (3A)
) URETHAN##
L12 7645 SEA ?SILYL? (3A) (ENDCAP? OR ENDGROUP? OR ENDBLOCK? OR
TERMINA? OR END? (2A) (CAP OR CAPS OR CAPPED OR CAPPING#
OR GR OR GRP OR GROUP? OR BLOCK?))
L13 1 SEA L10 AND L11 AND L12
L14 70230 SEA INK?
L15 1 SEA L14 AND L11 AND L12
L16 2 SEA L10 AND L11
L17 1 SEA L16 AND ?SILYL?
L18 8 SEA L14 AND L11
L19 1 SEA L18 AND ?SILYL?
L20 452237 SEA ENDCAP? OR ENDGROUP? OR ENDBLOCK? OR TERMINA? OR
END? (2A) (CAP OR CAPS OR CAPPED OR CAPPING# OR GR OR GRP
OR GROUP? OR BLOCK?)
L21 2 SEA L18 AND L20

FILE 'LREGISTRY' ENTERED AT 20:44:04 ON 08 AUG 2003

L22 STR

L23 FILE 'REGISTRY' ENTERED AT 20:48:33 ON 08 AUG 2003
L23 10 SEA SSS SAM L22
L24 STR L22
L25 39 SEA SSS SAM L24

L26 FILE 'LREGISTRY' ENTERED AT 20:50:59 ON 08 AUG 2003
L26 STR L22

L27 FILE 'REGISTRY' ENTERED AT 20:52:36 ON 08 AUG 2003
L27 15 SEA SSS SAM L26
L28 2471 SEA SSS FUL L26
 SAV L28 SHO284/A

L29 FILE 'LREGISTRY' ENTERED AT 20:53:28 ON 08 AUG 2003
L29 STR
L30 STR
L31 STR
L32 STR
L33 2 SEA SSS SAM L32
L34 STR L32

L35 FILE 'REGISTRY' ENTERED AT 21:00:27 ON 08 AUG 2003
L35 50 SEA SSS SAM L34
L36 SCR 2043
L37 18 SEA SSS SAM L29 AND L30 AND L31 AND L36
L38 50 SEA SSS SAM L30 AND L36
L39 67897 SEA SSS FUL L30 AND L36
 SAV TEM L39 SHO284A/A
L40 18 SEA SUB=L39 SSS SAM L29 AND L30 AND L31 AND L36
L41 381 SEA SUB=L39 SSS FUL L29 AND L30 AND L31 AND L36
 SAV L41 SHO284B/A
L42 4 SEA L28 AND L41
L43 377 SEA L41 NOT L42

L44 FILE 'HCAPLUS' ENTERED AT 21:05:13 ON 08 AUG 2003
L44 2 SEA L42
L45 0 SEA L44 AND L14

L46 FILE 'REGISTRY' ENTERED AT 21:05:43 ON 08 AUG 2003
L46 5152 SEA 502-44-3/CRN
L47 31 SEA L43 AND L46

L48 FILE 'HCAPLUS' ENTERED AT 21:08:07 ON 08 AUG 2003
L48 113 SEA L43
L49 18 SEA L47
L50 14430 SEA L28
L51 6 SEA L49 AND (L12 OR L50)
L52 1 SEA L51 AND (L14 OR L10)
L53 6 SEA L49 AND ?SILYL?
L54 1 SEA L53 AND (L14 OR L10)
L55 9 SEA L48 AND (L12 OR L50)
L56 1 SEA L55 AND (L14 OR L10)

L57 7 SEA L48 AND ?SILYL?
 L58 1 SEA L57 AND (L14 OR L10)

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 L59 STR

FILE 'REGISTRY' ENTERED AT 21:16:38 ON 08 AUG 2003
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 L61 1651 SEA SUB=L39 SSS FUL L59
 SAV L61 SHO284C/A

FILE 'HCAPLUS' ENTERED AT 21:17:35 ON 08 AUG 2003
 L62 624 SEA L61
 L63 17 SEA L62 AND (L12 OR L50)
 L64 2 SEA L63 AND (L14 OR L10)
 L65 12 SEA L62 AND ?SILYL?
 L66 2 SEA L65 AND (L14 OR L10)

FILE 'REGISTRY' ENTERED AT 21:19:52 ON 08 AUG 2003
 L67 50 SEA L61 AND L46

FILE 'HCAPLUS' ENTERED AT 21:19:56 ON 08 AUG 2003
 L68 30 SEA L67
 L69 7 SEA L68 AND (L12 OR L50 OR ?SILYL?)
 L70 1 SEA L69 AND (L14 OR L10)
 L71 6 SEA L13 OR L15 OR L16 OR L17 OR L19 OR L21 OR L44 OR L52
 OR L54 OR L56 OR L58 OR L64 OR L66 OR L70
 L72 11 SEA (L18 OR L51 OR L53 OR L55 OR L57 OR L69) NOT L71
 L73 8 SEA (L63 OR L65) NOT (L71 OR L72)

=> d 128 que stat
 L26 STR

12
 Ak
 {
 G1 11
 } 4
 H2N~~~G2~Ak~G1~Si~O~Ak
 @19 @18 15 1 2 3 { 5 6
 G1 13
 }
 Ak
 14

REP G1=(0-1) O
 REP G2=(0-10) 18-2 19-15
 NODE ATTRIBUTES:
 CONNECT IS E2 RC AT 2

CONNECT IS E1 RC AT 6
 CONNECT IS E1 RC AT 12
 CONNECT IS E1 RC AT 14
 CONNECT IS E2 RC AT 19
 DEFAULT MLEVEL IS ATOM
 GGCAT IS SAT AT 6
 GGCAT IS SAT AT 12
 GGCAT IS SAT AT 14
 GGCAT IS SAT AT 19
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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 NUMBER OF NODES IS 13

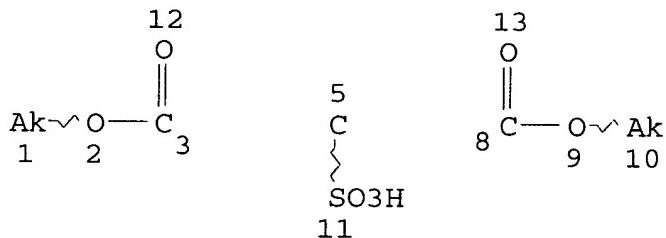
STEREO ATTRIBUTES: NONE

L28 2471 SEA FILE=REGISTRY SSS FUL L26

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SEARCH TIME: 00.00.04

2471 ANSWERS

=> d 141 que stat
L29 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 5
 CONNECT IS E1 RC AT 1
 CONNECT IS E1 RC AT 10
 DEFAULT MLEVEL IS ATOM
 GGCAT IS SAT AT 1
 GGCAT IS SAT AT 10
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L30 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L31 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE

L36 SCR 2043
 L39 67897 SEA FILE=REGISTRY SSS FUL L30 AND L36
 L41 381 SEA FILE=REGISTRY SUB=L39 SSS FUL L29 AND L30 AND L31
 AND L36

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 SEARCH TIME: 00.00.01

381 ANSWERS

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 L30 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
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 L39 67897 SEA FILE=REGISTRY SSS FUL L30 AND L36
 L59 STR

C~~SO3H
 1 2

NODE ATTRIBUTES:
 NSPEC IS RC AT 1
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE
 L61 1651 SEA FILE=REGISTRY SUB=L39 SSS FUL L59

100.0% PROCESSED 1651 ITERATIONS 1651 ANSWERS
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=> d 171 1-6 ibib abs hitstr hitind

L71 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:417814 HCAPLUS
 DOCUMENT NUMBER: 139:8268
 TITLE: Aqueous ink jet
 printable compositions, printing
 , and printed articles
 INVENTOR(S): Wu, Dong; Krepski, Larry R.; Lewandowski, Kevin
 M.; Ylitalo, Caroline M.; Elliott, Peter T.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003044103	A1	20030530	WO 2002-US30746	20020926
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

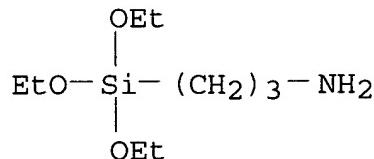
US 2003144375	A1	20030731	US 2001-284	20011115
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PRIORITY APPLN. INFO.:	US 2001-284	A 20011115
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AB **Ink jet printable** compns. comprise an aq. vehicle, particles (.gtoreq.20% dispersed shear deformable) of a self-crosslinking polymer, and optional colorant. Specifically, an **ink jet printable ink** comprises an aq. vehicle, a colorant, and a **silyl-terminated sulfopoly(ester-urethane)**. The **inks** show good adhesion to reflective sheeting, vinyl film and cotton wipes, and other materials.

IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with **sulfonated polyester polyurethane**
533938-24-8DP, reaction products with aminopropyltriethoxysilane **533938-25-9DP**, reaction products with aminopropyltriethoxysilane **533938-26-0DP**, reaction products with aminopropyltriethoxysilane **533938-27-1DP**, reaction products with aminopropyltriethoxysilane **533938-28-2DP**, reaction products with aminopropyltriethoxysilane (high solids compns. contg. self-crosslinking **sulfonated polyester polyurethane** in aq. vehicle with shear thinning property)

RN 919-30-2 HCPLUS
CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



RN 533938-24-8 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,6-diisocyanatohexane, 1,2-ethanediol, 2-oxepanone, 2,2'-oxybis[ethanol] and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]] (9CI) (CA INDEX NAME)

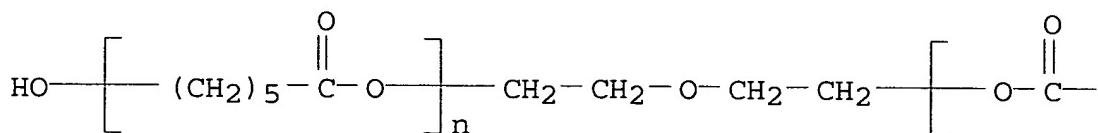
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CRN 50327-24-7

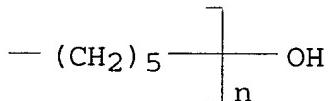
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃

CCI PMS

PAGE 1-A

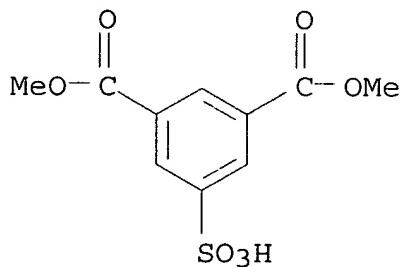


PAGE 1-B



CM 2

CRN 3965-55-7

CMF C₁₀ H₁₀ O₇ S . Na

● Na

CM 3

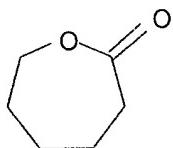
CRN 822-06-0

CMF C₈ H₁₂ N₂ O₂

$\text{OCN}-(\text{CH}_2)_6-\text{NCO}$

CM 4

CRN 502-44-3
CMF C6 H10 O2



CM 5

CRN 111-46-6
CMF C4 H10 O3

$\text{HO}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{OH}$

CM 6

CRN 107-21-1
CMF C2 H6 O2

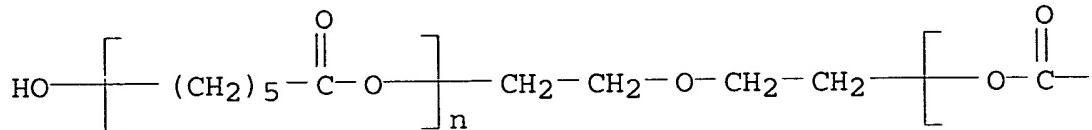
$\text{HO}-\text{CH}_2-\text{CH}_2-\text{OH}$

RN 533938-25-9 HCAPLUS
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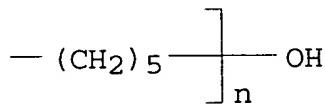
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CRN 50327-24-7
CMF (C6 H10 O2)n (C6 H10 O2)n C4 H10 O3
CCI PMS

PAGE 1-A

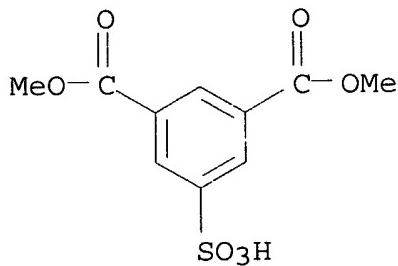


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CRN 3965-55-7
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● Na

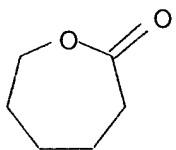
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CRN 822-06-0
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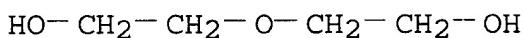
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CRN 502-44-3
 CMF C6 H10 O2



CM 5

CRN 111-46-6
 CMF C4 H10 O3

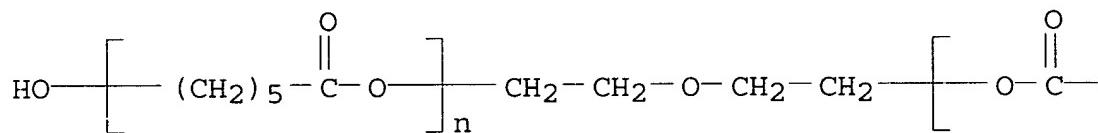


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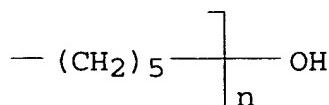
CM 1

CRN 50327-24-7
 CMF (C6 H10 O2)n (C6 H10 O2)n C4 H10 O3
 CCI PMS

PAGE 1-A

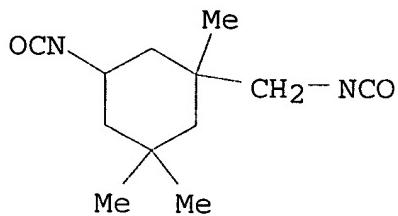


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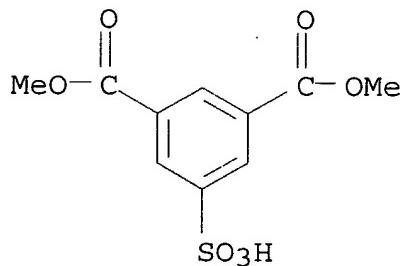
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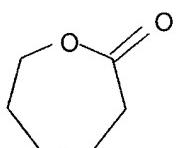
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 CMF C10 H10 O7 S . Na



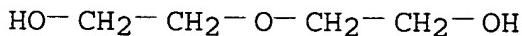
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CM 4

CRN 502-44-3
 CMF C6 H10 O2



CM 5

CRN 111-46-6
CMF C4 H10 O3

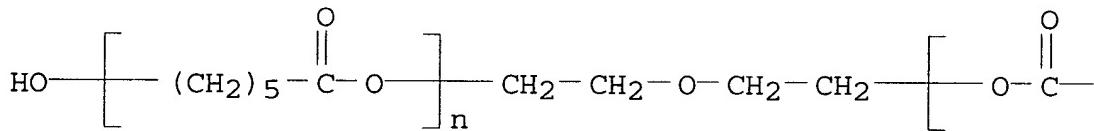
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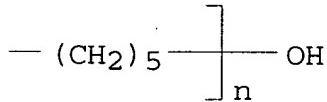
CM 1

CRN 50327-24-7
CMF (C6 H10 O2)n (C6 H10 O2)n C4 H10 O3
CCI PMS

PAGE 1-A

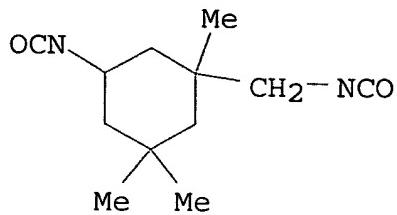


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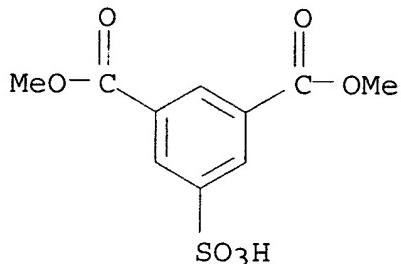


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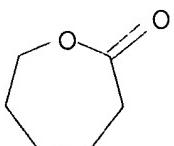


CM 3

CRN 3965-55-7
CMF C10 H10 O7 S . Na

● Na

CM 4

CRN 502-44-3
CMF C6 H10 O2

CM 5

CRN 111-46-6
CMF C4 H10 O3

HO-CH2-CH2-O-CH2-CH2-OH

CM . 6

CRN 107-21-1
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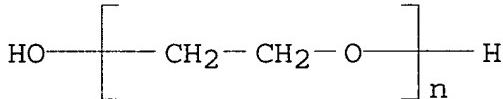
HO-CH2-CH2-OH

RN 533938-28-2 HCAPLUS

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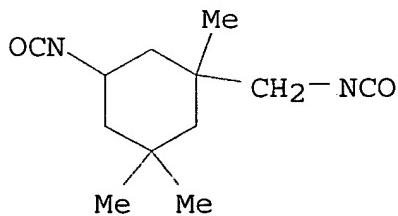
CM . 1

CRN 25322-68-3
CMF (C₂ H₄ O)_n H₂ O
CCI PMS



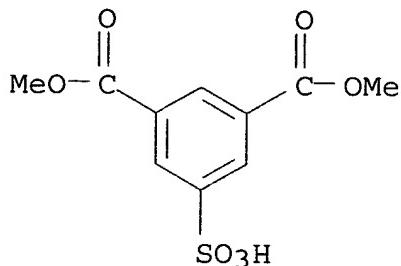
CM . 2

CRN 4098-71-9
CMF C₁₂ H₁₈ N₂ O₂



CM . 3

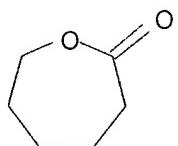
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

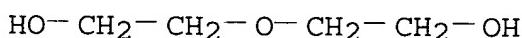
CM 4

CRN 502-44-3
 CMF C6 H10 O2



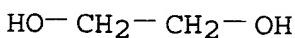
CM 5

CRN 111-46-6
 CMF C4 H10 O3



CM 6

CRN 107-21-1
 CMF C2 H6 O2



IC ICM C09D011-00
 CC 42-12 (Coatings, Inks, and Related Products)
 ST self crosslinking **sulfonated polyester**
polyurethane aq printing ink
 IT Inks
 (jet-printing, water-thinned; high solids
 compns. contg. self-crosslinking **sulfonated**
 polyester polyurethane in aq. vehicle with
 shear thinning property)
 IT Polyurethanes, uses
 (polyester-, sulfo group-contg.,
 silyl-terminated; high solids compns. contg.
 self-crosslinking **sulfonated polyester**
 polyurethane in aq. vehicle with shear thinning property)
 IT 395667-35-3P, Diethylene glycol-dimethyl 5-sodiosulfoisophthalate-
 .epsilon.-caprolactone copolymer
 (high solids compns. contg. self-crosslinking **sulfonated**
 polyester polyurethane in aq. vehicle with
 shear thinning property)
 IT 109-73-9DP, n-Butylamine, reaction products with **sulfonated**
 polyester polyurethane 919-30-2DP,
 3-Aminopropyltriethoxysilane, reaction products with
 sulfonated polyester polyurethane
 533938-24-8DP, reaction products with
 aminopropyltriethoxysilane 533938-25-9DP, reaction
 products with aminopropyltriethoxysilane 533938-26-0DP,
 reaction products with aminopropyltriethoxysilane
 533938-27-1DP, reaction products with
 aminopropyltriethoxysilane 533938-28-2DP, reaction
 products with aminopropyltriethoxysilane
 (high solids compns. contg. self-crosslinking **sulfonated**
 polyester polyurethane in aq. vehicle with
 shear thinning property)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L71 ANSWER 2 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2000:815179 HCPLUS
 DOCUMENT NUMBER: 133:367863
 TITLE: Biaxially oriented polyester film and
 ink-jet printing
 receptor using same
 INVENTOR(S): Kinoshita, Shuichi; Ueda, Takashi; Onishi,
 Masaya
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000318294	A2	20001121	JP 1999-125521	19990506
PRIORITY APPLN. INFO.:			JP 1999-125521	19990506
AB	The title polyester film, used as an image-receiving sheet for ink jet recording, has d. of 0.6-1.2 g/cm ³ , whiteness of .gtoreq.100%, and gloss of .gtoreq.50% and possesses a resin layer contg. .gtoreq.1 selected from polyester, copolymerd. polyester, acrylic, polyurethane, and sulfonated polystyrene resins formed on .gtoreq.1 side. The image-receiving sheet comprises the polyester film coated with an ink-receptive layer on .gtoreq.1 side. The film is esp. useful as an image-receiving sheet for highly efficient ink jet printers and provides glossy, high quality images.			
IC	ICM B41M005-00			
CC	74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)			
ST	Section cross-reference(s): 38			
IT	ink jet printing sheet biaxially oriented polyester			
IT	Acrylic polymers, uses Polyurethanes, uses (ink receiving layer; ink-jet printing sheet using biaxially oriented polyester)			
IT	Ink-jet recording sheets (ink-jet printing sheet using biaxially oriented polyester)			
IT	Polyesters, uses (ink-jet printing sheet using biaxially oriented polyester)			
IT	1533-45-5 (OB 1; ink-jet printing sheet using biaxially oriented polyester)			
IT	9003-53-6D, Polystyrene, sulfonated (ink receiving layer; ink-jet printing sheet using biaxially oriented polyester)			
IT	13463-67-7, Titania, uses (ink-jet printing sheet using biaxially oriented polyester)			
IT	9016-80-2, Polymethylpentene 25038-59-9, Poly(ethylene terephthalate), uses (ink-jet printing sheet using biaxially oriented polyester)			

L71 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:427895 HCAPLUS

DOCUMENT NUMBER: 129:162474

TITLE: Electrically semiconductive components and their manufacture

INVENTOR(S) : Ishii, Sachihiro; Ano, Michiaki; Mutsusori, Minoru; Fukuda, Mitsuo; Mihara, Atsushi; Ozaki, Yuzo; Takinami, Makoto; Soyama, Takeo
 PATENT ASSIGNEE(S) : Fuji Xerox Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10175264	A2	19980630	JP 1996-327165	19961206
JP 3000944	B2	20000117		
US 5925893	A	19990720	US 1997-881492	19970924
PRIORITY APPLN. INFO.:			JP 1996-163211	A 19960624
			JP 1996-272414	A 19961015
			JP 1996-327165	A 19961206

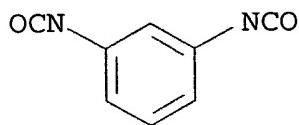
AB Title components, useful for printing app., contain elec. conductive bases and elec. conductive layers and/or resist-control layers contg. polyurethane ionomers contg. sulfonic, carboxylic, and/or tert-amino groups or salts. A primed stainless core was coated with an elec. conductive JSR-SL 574 compn., then with a carbon black/Amilan CM 8000 blend, further coated with a soln. (A) contg. adipic acid-1,4-butanediol-di-Me 5-sodiosulfoisophthalate-MDI copolymer and Takenate D 170N, cured, and covered with a carbon black-contg. A soln. to form a roll showing good application continuity under low temp. and moisture.

IT 210910-58-0P
 (polyurethane ionomer-contg. layer-contg. semiconductive components for printing app.)

RN 210910-58-0 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,4-butanediol, 1,3-diisocyanatomethylbenzene, hexanedioic acid, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and N-[3-(trimethoxysilyl)propyl]-1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

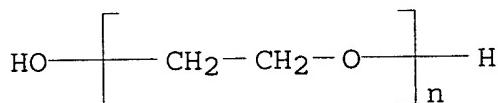
CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



D1—Me

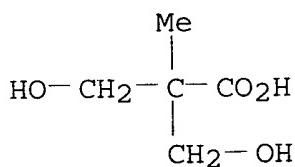
CM 2

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



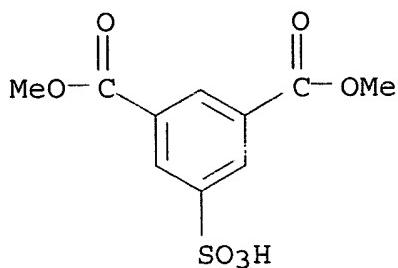
CM 3

CRN 4767-03-7
 CMF C₅ H₁₀ O₄



CM 4

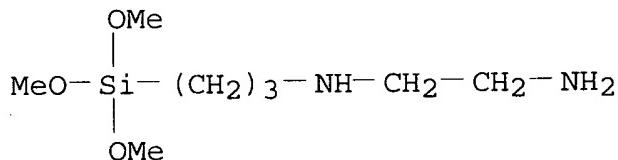
CRN 3965-55-7
 CMF C₁₀ H₁₀ O₇ S . Na



● Na

CM 5

CRN 1760-24-3
CMF C8 H22 N2 O3 Si



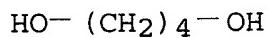
CM 6

CRN 124-04-9
CMF C6 H10 O4



CM 7

CRN 110-63-4
CMF C4 H10 O2



IC ICM B32B007-02
ICS B32B027-40; C09D175-04; F16C013-00; G03G015-02; G03G015-16;

G03G015-20; G03G021-10

CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 39, 74
 IT 210910-52-4P, Adipic acid-1,4-butanediol-dimethyl
 5-sodiosulfoisophthalate-MDI-Takenate D 170N copolymer
 210910-53-5P, Adipic acid-1,4-butanediol-2,2-dimethylolpropanoicacid-
 dimethyl 5-sodiosulfoisophthalate-polyoxyethylene-TDI-Takenate D
 170N copolymer 210910-54-6P 210910-55-7P, Adipic
 acid-1,4-butanediol-dimethyl 5-sodiosulfoisophthalate-
 isophoronediamine-monoethanolamine-polyoxypolypropylene-MDI-Takenate D
 160N copolymer 210910-56-8P, Adipic acid-1,4-butanediol-1,6-
 hexanediol-dimethyl5-sodiosulfoisophthalate-TDI-Takenate D 160N
 copolymer 210910-57-9P, Ethylene glycol-MDI-N-methyldiethanolamine-
 propyleneoxide-Takenate D 160N-N,N-dimethyl N,N-di(2-
 hydroxyethyl)ammonium p-toluenesulfonate copolymer
 210910-58-0P 210910-59-1P 210910-60-4P 211189-96-7P,
 Adipic acid-1,4-butanediol-2,2-dimethylolpropanoicacid-dimethyl
 5-sodiosulfoisophthalate-polyoxyethylene-TDI-Desmodur HT copolymer
 211189-97-8P, Adipic acid-1,4-butanediol-dimethyl
 5-sodiosulfoisophthalate-MDI-Desmodur HT copolymer 211189-98-9P
 (polyurethane ionomer-contg. layer-contg. semiconductive
 components for printing app.)

L71 ANSWER 4 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:224022 HCPLUS

DOCUMENT NUMBER: 126:213462

TITLE: Water-dispersible silyl-terminated sulfo
group-containing polyester-polyurethane pavement
marking compositions with good weather and
abrasion resistance and marking of pavements
with themINVENTOR(S): Larson, Wayne K.; Heilmann, Steven M.; Krepski,
Larry R.; Mickus, Daniel E.; Smith, Howell K.,
III; Purgett, Mark D.; Borden, Thomas R.; May,
David C.; Jacobs, Gregory F.; Hachey, Kathleen
A.; Velamakanni, Bhaskar V.; Menzies, Robert H.;
Eastin, Brian C.; Schultz, William J.

PATENT ASSIGNEE(S): Minnesota Mining and Mfg. Co., USA

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9703252	A1	19970130	WO 1996-US10874	19960625
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
 GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN

US 5747626	A	19980505	US 1996-609877	19960301
CA 2226368	AA	19970130	CA 1996-2226368	19960625
AU 9663941	A1	19970210	AU 1996-63941	19960625
AU 697950	B2	19981022		
EP 837971	A1	19980429	EP 1996-923428	19960625
EP 837971	B1	19990421		
R: AT, DE, ES, FR, GB, IT, NL				
CN 1189870	A	19980805	CN 1996-195273	19960625
AT 179233	E	19990515	AT 1996-923428	19960625
JP 11508944	T2	19990803	JP 1996-505837	19960625
PRIORITY APPLN. INFO.:				
			US 1995-954P	P 19950707
			US 1996-609877	A 19960301
			WO 1996-US10874	W 19960625

AB The aq. pavement marking compns. comprise sulfo group-contg. polyester-polyurethanes having the backbone contg. .gtoreq.1 nonterminal arylene or alkylene group comprising a pendant sulfonic acid group or salts thereof and having .gtoreq.1 hydrolyzable silyl terminal group, and optionally contain pigments, optical elements, skid-resistant particles, filler, and/or extenders. A 1:0.87 (mol ratio) mixt. of di-Me 5-sodiosulfoisophthalate was copolymd. with PCP 0200 (polycaprolactone diol) to give a precursor, which (649.8 g) was copolymd. with ethylene glycol 89.4, isophorone diisocyanate 800.2, and (3-aminopropyl)triethoxysilane 159.4 g in H₂O to give an aq. dispersion (solids 54%) of a silanol-terminated sulfo group-contg. polyester-polyurethane with glass transition temp. 26.degree.. A cast film of the dispersion exhibited tensile strength 17.9 MPa and elongation 587%.

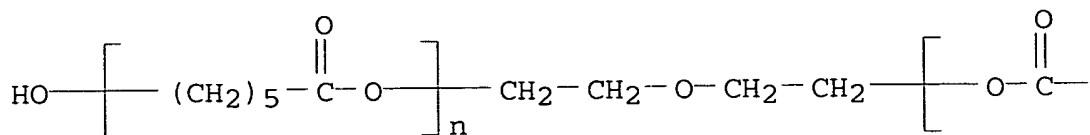
IT 188011-06-5P 188011-07-6P 188011-08-7P
 (rubber, coating; water-dispersible silyl-terminated sulfo group-contg. polyester-polyurethane pavement marking compns. with good weather and abrasion resistance and marking of pavements with them)

RN 188011-06-5 HCPLUS
 CN 1,3-Benzene dicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]] and 3-(triethoxysilyl)-1-propanamine (9CI) (CA INDEX NAME)

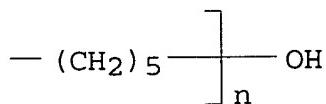
CM 1

CRN 50327-24-7
 CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃
 CCI PMS

PAGE 1-A

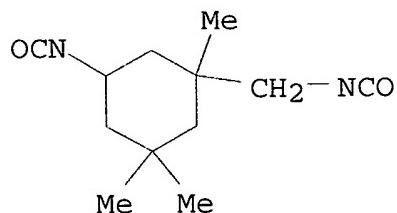


PAGE 1-B



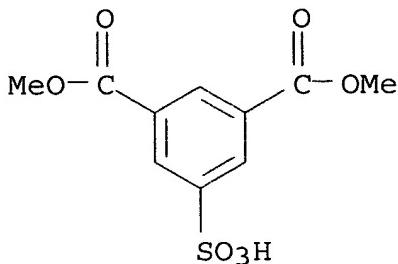
CM 2

CRN 4098-71-9
 CMF C12 H18 N2 O2



CM 3

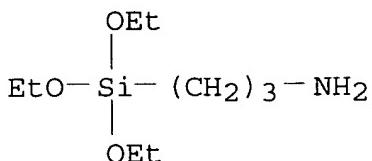
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

CM 4

CRN 919-30-2
CMF C9 H23 N O3 Si



CM 5

CRN 107-21-1
CMF C2 H6 O2

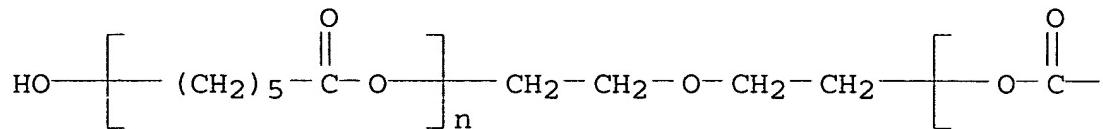
HO-CH₂-CH₂-OH

RN 188011-07-6 HCAPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 1,1'-methylenebis[4-isocyanatocyclohexane], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]] and 3-(triethoxysilyl)-1-propanamine (9CI) (CA INDEX NAME)

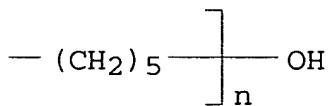
CM 1

CRN 50327-24-7
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃
CCI PMS

PAGE 1-A

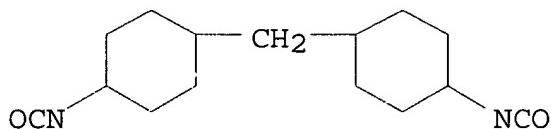


PAGE 1-B



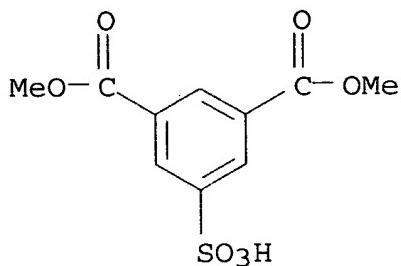
CM 2

CRN 5124-30-1
 CMF C15 H22 N2 O2



CM 3

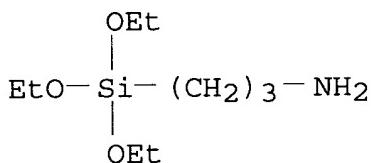
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

CM 4

CRN 919-30-2
CMF C9 H23 N O3 Si



CM 5

CRN 107-21-1
CMF C2 H6 O2



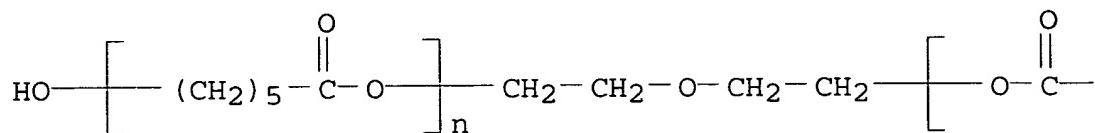
RN 188011-08-7 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,4-cyclohexanediol, 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone, .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]] and 3-(triethoxysilyl)-1-propanamine (9CI) (CA INDEX NAME)

CM 1

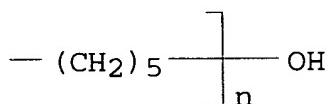
CRN 50327-24-7
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃

CCI PMS

PAGE 1-A

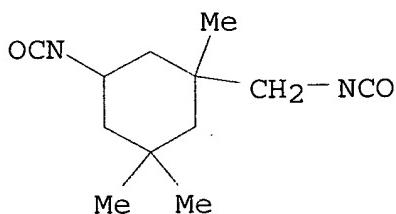


PAGE 1-B



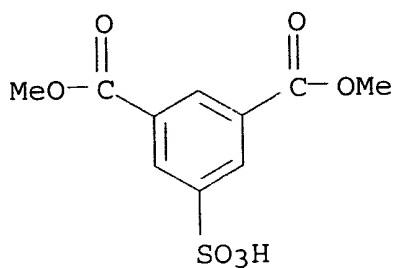
CM 2

CRN 4098-71-9
 CMF C12 H18 N2 O2



CM 3

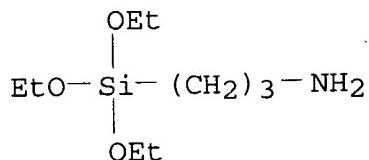
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

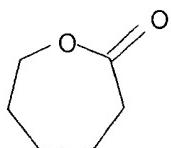
CM 4

CRN 919-30-2
CMF C9 H23 N O3 Si



CM 5

CRN 502-44-3
CMF C6 H10 O2



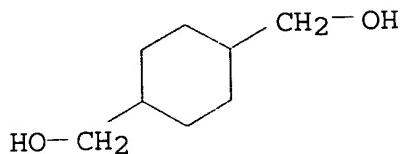
CM 6

CRN 107-21-1
CMF C2 H6 O2

HO—CH₂—CH₂—OH

CM 7

CRN 105-08-8
CMF C8 H16 O2



IC ICM E01F009-04
ICS C08G018-08; C08G018-46; C08G018-71; C08G018-10; C08G018-28;
C08G018-83

CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35, 39

IT 188011-06-5P 188011-07-6P 188011-08-7P

188011-09-8P
(rubber, coating; water-dispersible silyl-terminated sulfo group-contg. polyester-polyurethane pavement marking compns. with good weather and abrasion resistance and marking of pavements with them)

L71 ANSWER 5 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:488698 HCPLUS

DOCUMENT NUMBER: 125:115551

TITLE: Low surface energy sulfo-polyurethane or sulfo-polyurea compositions

INVENTOR(S): Larson, Wayne K.; Bennett, Richard E.; Franchina, Nicole L.

PATENT ASSIGNEE(S): Minnesota Mining and Mfg. Co., USA

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 717057	A1	19960619	EP 1995-402817	19951214
EP 717057	B1	20010620		
R: DE, FR, GB, IT				
CA 2163611	AA	19960616	CA 1995-2163611	19951123
JP 08239439	A2	19960917	JP 1995-320372	19951208

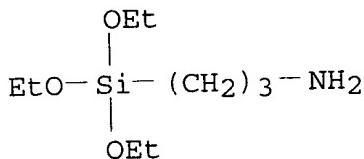
US 5679754 A 19971021 US 1996-653141 19960606
 PRIORITY APPLN. INFO.: US 1994-356867 A 19941215
 AB A water dispersible polymeric compn. comprises at least one sulfo group contg. segment comprising at least one urethane or urea connecting group, and also comprises at least one hydrophobic segment (e.g., siloxane, fluoroalkyl, higher alkyl groups) comprising at least one urethane or urea connecting group. The compn. when dried can provide a coating on a substrate or an article having low surface energy and preferably ink receptive properties. The article can provide release capabilities towards adhesives, particularly pressure sensitive adhesives. A polymer was prep'd. from 3-aminopropyl-terminated di-Me siloxane, Carbowax 600, Desmodur W, and di-Me sodium sulfoisophthalate.
 IC ICM C08G018-08
 ICS C08G018-61; C08G018-38; C08G018-32
 CC 35-5 (Chemistry of Synthetic High Polymers)
 IT Siloxanes and Silicones, preparation
 (polyester-polyoxyalkylene-polyurea-polyurethane-, sulfo-contg., block, low surface energy sulfo-polyurethane or sulfo-polyurea compns.)
 IT Polyureas
 (polyester-polyoxyalkylene-polyurethane-siloxane-, sulfo-contg., block, low surface energy sulfo-polyurethane or sulfo-polyurea compns.)
 IT Polyoxyalkylenes, preparation
 (polyoxyalkylene-polyurea-polyurethane-siloxane-, sulfo-contg., block, low surface energy sulfo-polyurethane or sulfo-polyurea compns.)
 IT Polyesters, preparation
 (polyoxyalkylene-polyurea-polyurethane-siloxane-, sulfo-contg., block, low surface energy sulfo-polyurethane or sulfo-polyurea compns.)

L71 ANSWER 6 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1994:411386 HCPLUS
 DOCUMENT NUMBER: 121:11386
 TITLE: Preparation of crosslinked resin particle dispersants with water and chemical resistance and mechanical strength
 INVENTOR(S): Hashizume, Toyomi; Takayanagi, Hitoshi
 PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06001846	A2	19940111	JP 1992-160983	19920619
			JP 1992-160983	19920619

PRIORITY APPLN. INFO.:

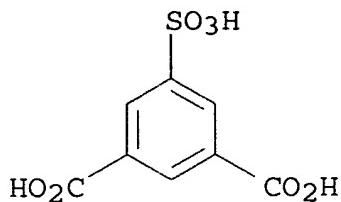
- AB The dispersants, useful for coatings, inks, and adhesives, are prep'd. by addn. reaction of self water-dispersible resins with functional groups, monomers with functional groups and hydrolyzable silyl groups, and optional hydrophobic resins with functional groups and polycondensation in aq. media. Thus, an isocyanate-terminated self water-dispersible polyurethane prep'd. from terephthalic acid, adipic acid, isophthalic acid, neopentyl glycol, ethylene glycol, IPDI, and dimethylolpropionic acid 200, .gamma.-mercaptopropyltrimethoxysilane 19, triethylamine 5.1, dibutyltin laurate 0.6, and MEK 80 parts were mixed at room temp. for 30 min and treated with H₂O at 60.degree. for 60 min to obtain a crosslinked resin particle water dispersant, which was applied on a plate and baked; the resulted film showed elongation 48%, tensile strength 430 kg/cm², water and chem. resistance, and transparency.
- IT 919-30-2DP, .gamma.-Aminopropyltriethoxysilane, reaction product with polyester-polyurethanes 155756-92-6DP, reaction product with silanes (prepn. of, for crosslinked resin particle dispersants, films from, with water and chem. resistance and mech. strength)
- RN 919-30-2 HCPLUS
CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



- RN 155756-92-6 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, monosodium salt, polymer with 1,3-benzenedicarboxylic acid, 1,4-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, 1,2-ethanediol, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

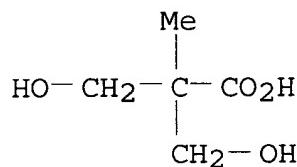
CRN 6362-79-4
CMF C8 H6 O7 S . Na



● Na

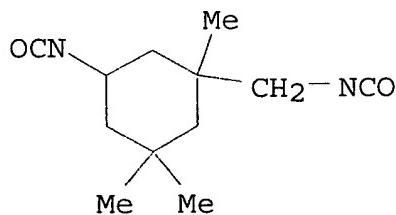
CM 2

CRN 4767-03-7
CMF C5 H10 O4



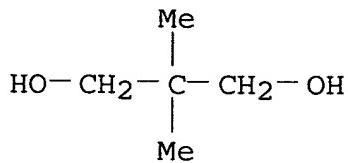
CM 3

CRN 4098-71-9
CMF C12 H18 N2 O2

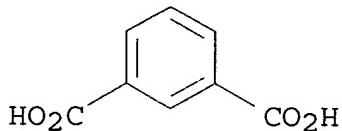


CM 4

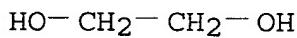
CRN 126-30-7
CMF C5 H12 O2



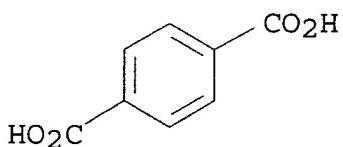
CM 5

CRN 121-91-5
CMF C8 H6 O4

CM 6

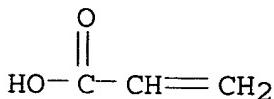
CRN 107-21-1
CMF C2 H6 O2

CM 7

CRN 100-21-0
CMF C8 H6 O4

CM 8

CRN 79-10-7
CMF C3 H4 O2



IC ICM C08G077-00
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 37
 ST resin particle dispersant crosslinked siloxane; water resistance polyurethane siloxane film; chem resistance siloxane polymer film; mech strength polyurethane siloxane film; silane polyurethane polycondensation film; epoxy polyester polyurethane polyaddn polycondensation; hydrolysis monomer dispersant resin particle; silyl monomer hydrophobic resin polycondensation; coating siloxane polyurethane water dispersant; polyester polyol addn reaction urethane
 IT 919-30-2DP, .gamma.-Aminopropyltrimethoxysilane, reaction product with polyester-polyurethanes 2897-60-1DP, .gamma.-Glycidoxypromethylmethyldiethoxysilane, reaction product with polyester-polyurethanes 4420-74-0DP, .gamma.-Mercaptopropyltrimethoxysilane, reaction product with polyester-polyurethanes 25068-38-6DP, Epiclon 850, reaction product with polyester-polyurethanes 28430-18-4DP, Adipic acid-ethylene glycol-isophthalic acid-neopentyl glycol-trimethylolpropane copolymer, reaction product with silanes 54847-49-3DP, Denacol EX 211, reaction product with polyester-polyurethanes 113148-38-2DP, Burnock DN 980, reaction product with polyester-polyurethanes 155756-91-5DP, reaction product with silanes 155756-92-6DP, reaction product with silanes
 (prepn. of, for crosslinked resin particle dispersants, films from, with water and chem. resistance and mech. strength)

=> d 172 1-11 cbib abs hitstr hitind

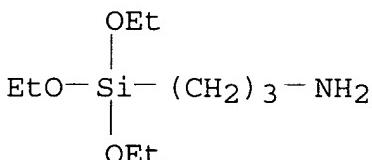
L72 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
 2003:282672 Document No. 138:289133 Dry-peelable temporary protective coatings. Krepinski, Larry R.; Lewandowski, Kevin M.; Mickus, Daniel E.; Rowen, Susan K.; Johnson, Stephen A. (3m Innovative Properties Company, USA). PCT Int. Appl. WO 2003029372 A2 20030410, 36 pp.
 DESIGNATED STATES: W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US30382 20020925. PRIORITY: US 2001-970486 20011003.
 AB The dry-strippable coating compn. is incorporated into a composite

article and comprises a dried water-borne polyurethane dispersion (e.g., aminopropyltriethoxysilyl end-capped epsilon-caprolactone-diethylene glycol-dimethyl 5-sodiosulfoisophthalate-ethylene glycol-IPDI-Niax PCP 0201 copolymer) contg. a release additive comprising a releasing cosolvent having b.p. >100.degree. and/or a metal salt dispersion or a wax dispersion (e.g., glycerol). When water is removed from the polyurethane dispersion of the composite article and when the article comprises a thermoformable substrate, the article can be thermoformed to provide a shaped article. Dry-stripping the coating compn. from the substrate provides a thermoformed protective layer. The dry-strippable coatings provide temporary protection for the surface of various products and components during manuf., assembly, shipping, installation, painting, and refinishing operations.

IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with sulfo polyester-polyurethanes 246856-69-9DP,
aminopropyltriethoxysilyl end-capped
506426-13-7DP, aminopropyltriethoxysilyl end-capped 506426-15-9DP,
aminopropyltriethoxysilyl end-capped
(dry-peelable temporary protective coatings)

RN 919-30-2 HCPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



RN 246856-69-9 HCPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, Niax PCP 201, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 97123-87-0

CMF Unspecified

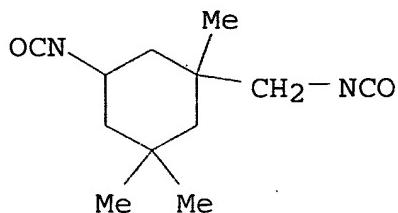
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

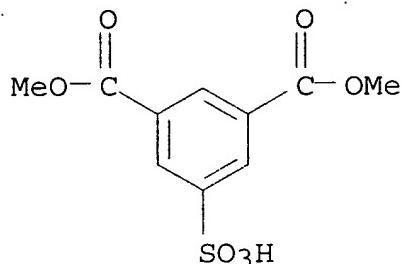
CM 2

CRN 4098-71-9

CMF C12 H18 N2 O2

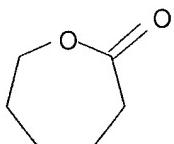


CM 3

CRN 3965-55-7
CMF C10 H10 O7 S . Na

● Na

CM 4

CRN 502-44-3
CMF C6 H10 O2

CM 5

CRN 111-46-6
CMF C4 H10 O3

HO-CH2-CH2-O-CH2-CH2-OH

CM 6

CRN 107-21-1
CMF C2 H6 O2

HO-CH2-CH2-OH

RN 506426-13-7 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, Niax PCP 201, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

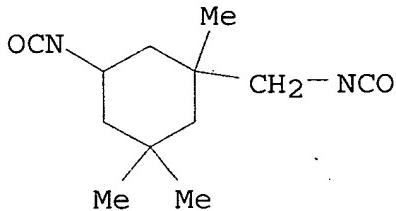
CM 1

CRN 97123-87-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

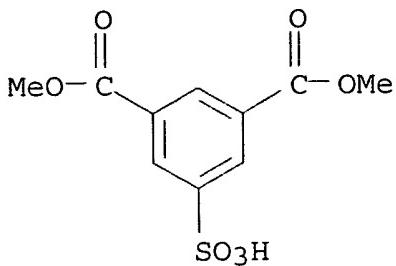
CM 2

CRN 4098-71-9
CMF C12 H18 N2 O2



CM 3

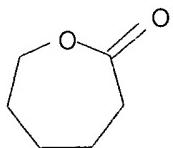
CRN 3965-55-7
CMF C10 H10 O7 S . Na



● Na

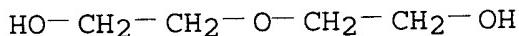
CM 4

CRN 502-44-3
CMF C₆ H₁₀ O₂



CM 5

CRN 111-46-6
CMF C₄ H₁₀ O₃



RN 506426-15-9 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and Niax PCP 201 (9CI) (CA INDEX NAME)

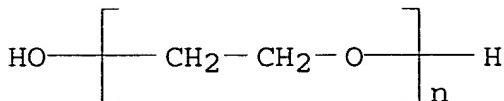
CM 1

CRN 97123-87-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

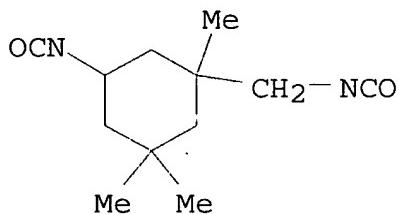
CM 2

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



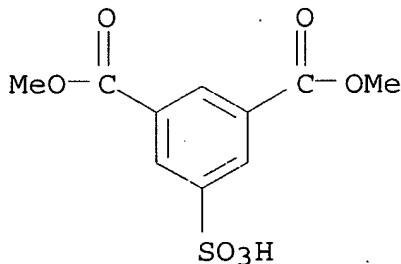
CM 3

CRN 4098-71-9
 CMF C₁₂ H₁₈ N₂ O₂



CM 4

CRN 3965-55-7
 CMF C₁₀ H₁₀ O₇ S . Na



Na

CM 5

CRN 107-21-1
CMF C2 H6 O2

IC ICM C09D175-04
 CC 42-10 (Coatings, Inks, and Related Products)
 IT Polyurethanes, uses
 (polyester-, carboxylate, **silyl-terminated**;
 dry-peelable temporary protective coatings)
 IT Polyurethanes, uses
 (polyester-, sulfo, **silyl-terminated**;
 dry-peelable temporary protective coatings)
 IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products
 with sulfo polyester-polyurethanes 24980-41-4DP, Polycaprolactone,
 diol, polymers 25248-42-4DP, Polycaprolactone, diol, polymers
 246856-69-9DP, **aminopropyltriethoxysilyl**
 end-capped 506426-13-7DP,
 aminopropyltriethoxysilyl end-capped
 506426-15-9DP, **aminopropyltriethoxysilyl**
 end-capped 506435-64-9DP,
 aminopropyltriethoxysilyl end-capped
 507276-40-6DP, **aminopropyltriethoxysilyl end-**
 capped
 (dry-peelable temporary protective coatings)

L72 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

2002:778522 Document No. 137:299550 **Silylated**

polyurethane-urea compositions for use in cosmetic applications.
 Mallo, Richard A.; Kantner, Steven S.; Lewandowski, Kevin M.;
 Krebski, Larry R. (3M Innovative Properties Company, USA). U.S.
 Pat. Appl. Publ. US 2002146382 A1 20021010, 14 pp. (English).
 CODEN: USXXCO. APPLICATION: US 2001-771054 20010126.

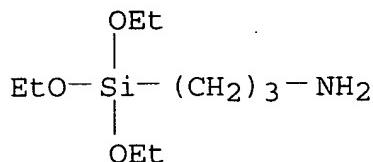
AB A compn. in the form of an aq. dispersion used in cosmetic
 applications is provided. The compn. comprises at least one
 polyurethane-urea polymer that is functionalized with at least one
 hydrolyzed or hydrolyzable **silyl** group. When the compn.
 is used in hair care, it does not have a reshaping effect. A
 silanol terminated polyurethane-urea was prep'd. from
 polycaprolactone Na sulfoisophthalate, polycaprolactone diol,
 ethylene glycol, diethylene glycol, isophorone diisocyanate, MEK,
 dibutyltin dilaurate, and 3-aminopropyltriethoxysilane. Cosmetic
 compns. are also given.

IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products
 with polyurethane-urea 13822-56-5DP, 3-
 Aminopropyltrimethoxysilane, reaction products with
 polyurethane-urea 25147-91-5DP, reaction products with

polyurethane-urea 222405-56-3DP,
 aminopropyltriethoxysilyl end-capped
 467468-24-2DP, aminopropyltriethoxysilyl
 end-capped 467468-25-3DP,
 aminopropyltriethoxysilyl end-capped
 467468-26-4DP, aminopropyltriethoxysilyl
 end-capped 467468-27-5DP,
 aminopropyltriethoxysilyl end-capped
 (silylated polyurethane-urea compns. for cosmetic use)

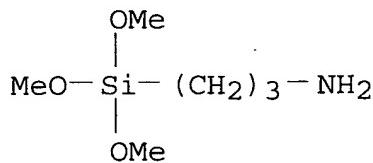
RN 919-30-2 HCPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



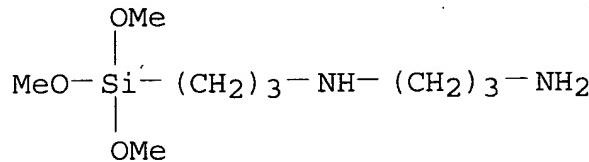
RN 13822-56-5 HCPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



RN 25147-91-5 HCPLUS

CN 1,3-Propanediamine, N-[3-(trimethoxysilyl)propyl]- (8CI, 9CI) (CA INDEX NAME)

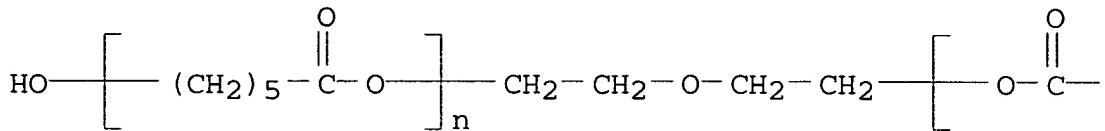


RN 222405-56-3 HCPLUS

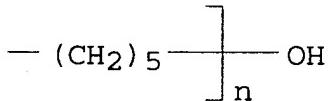
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone, 2,2'-oxybis[ethanol] and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block (9CI) (CA INDEX NAME)

CRN 50327-24-7
 CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃
 CCI PMS

PAGE 1-A

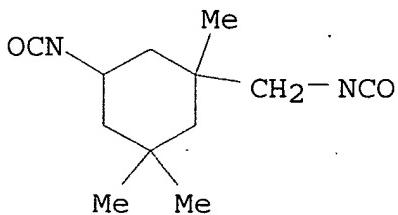


PAGE 1-B



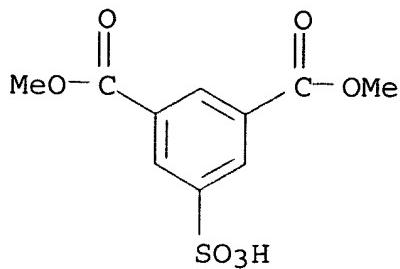
CM 2

CRN 4098-71-9
 CMF C₁₂ H₁₈ N₂ O₂



CM 3

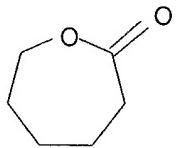
CRN 3965-55-7
 CMF C₁₀ H₁₀ O₇ S . Na



● Na

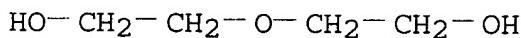
CM 4

CRN 502-44-3
CMF C6 H10 O2



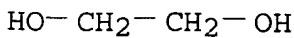
CM 5

CRN 111-46-6
CMF C4 H10 O3



CM 6

CRN 107-21-1
CMF C2 H6 O2



RN 467468-24-2 HCAPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium

salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block (9CI) (CA INDEX NAME)

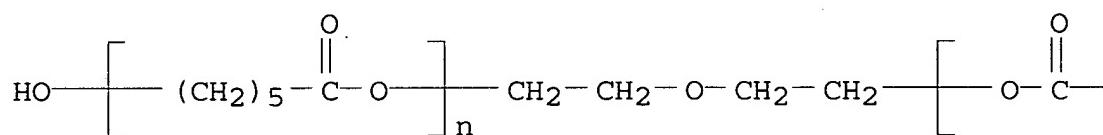
CM 1

CRN 50327-24-7

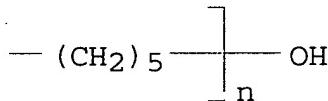
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃

CCI PMS

PAGE 1-A



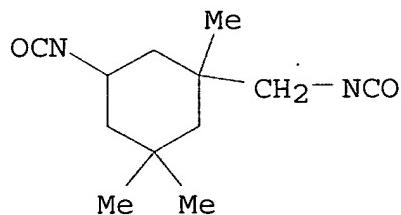
PAGE 1-B



CM 2

CRN 4098-71-9

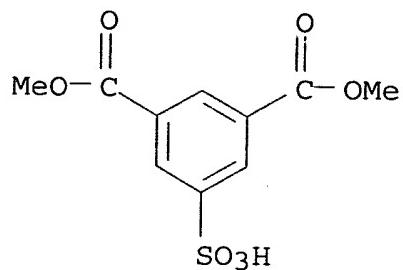
CMF C₁₂ H₁₈ N₂ O₂



CM 3

CRN 3965-55-7

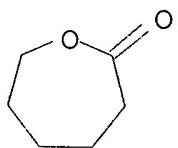
CMF C₁₀ H₁₀ O₇ S . Na



● Na

CM 4

CRN 502-44-3
CMF C6 H10 O2



CM 5

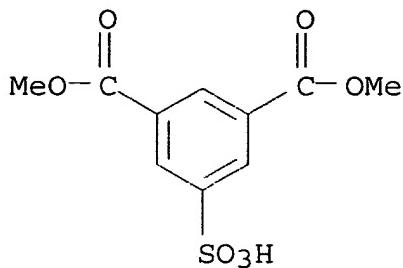
CRN 107-21-1
CMF C2 H6 O2

HO—CH₂—CH₂—OH

RN 467468-25-3 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-decanediol, 1,6-diisocyanatohexane and 2-oxepanone, block (9CI) (CA INDEX NAME)

CM 1

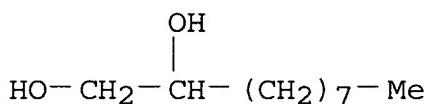
CRN 3965-55-7
CMF C10 H10 O7 S . Na



● Na

CM 2

CRN 1119-86-4
CMF C10 H22 O2



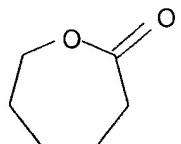
CM 3

CRN 822-06-0
CMF C8 H12 N2 O2



CM 4

CRN 502-44-3
CMF C6 H10 O2



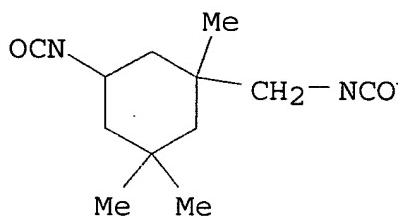
RN 467468-26-4 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepanone, block (9CI) (CA INDEX NAME)

CM 1

CRN 4098-71-9

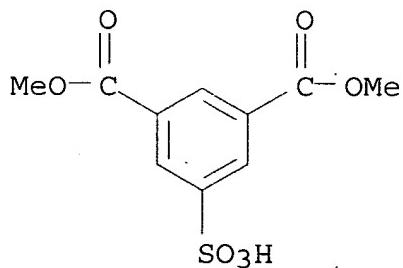
CMF C12 H18 N2 O2



CM 2

CRN 3965-55-7

CMF C10 H10 O7 S . Na

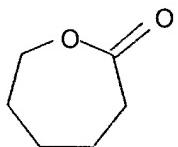


● Na

CM 3

CRN 502-44-3

CMF C6 H10 O2



RN 467468-27-5 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol; 1,1'-methylenebis[4-isocyanatocyclohexane], 2-oxepanone and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block (9CI) (CA INDEX NAME)

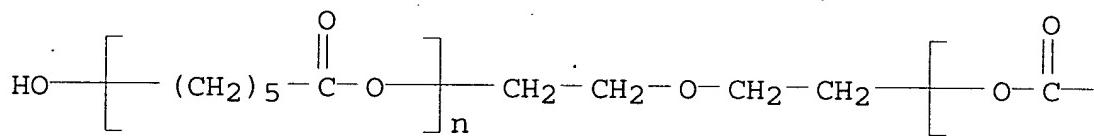
CM 1

CRN 50327-24-7

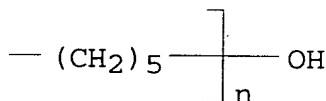
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃

CCI PMS

PAGE 1-A



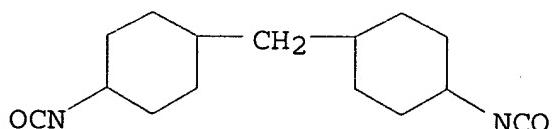
PAGE 1-B



CM 2

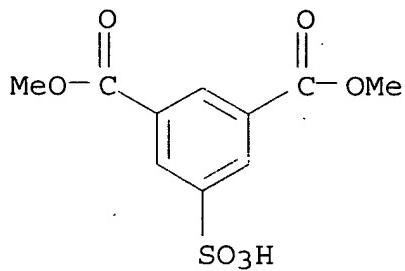
CRN 5124-30-1

CMF C₁₅ H₂₂ N₂ O₂



CM 3

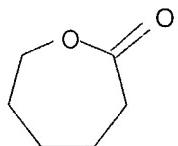
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

CM 4

CRN 502-44-3
 CMF C6 H10 O2



CM 5

CRN 107-21-1
 CMF C2 H6 O2

$\text{HO}-\text{CH}_2-\text{CH}_2-\text{OH}$

IC ICM A61K007-06
 ICS C08G077-04; A61K007-11
 NCL 424070122
 CC 62-4 (Essential Oils and Cosmetics)
 Section cross-reference(s): 35
 ST **silylated** polyurethane urea prepн cosmetic

IT Polyurethanes, biological studies
 (polyurea-; **silylated** polyurethane-urea compns. for cosmetic use)

IT Polyureas
 (polyurethane-; **silylated** polyurethane-urea compns. for cosmetic use)

IT Cosmetics

Hair preparations
 (**silylated** polyurethane-urea compns. for cosmetic use)

IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with polyurethane-urea 13497-18-2DP, Bis(3-triethoxysilylpropyl)amine, reaction products with polyurethane-urea 13822-56-5DP, 3-Aminopropyltrimethoxysilane, reaction products with polyurethane-urea 14814-09-6DP, 3-Mercaptopropyltriethoxysilane, reaction products with polyurethane-urea 15396-00-6DP, 3-Isocyanatopropyltrimethoxysilane, reaction products with polyurethane-urea 24801-87-4DP, reaction products with polyurethane-urea 25147-91-5DP, reaction products with polyurethane-urea 31001-77-1DP, reaction products with polyurethane-urea 42965-90-2DP, reaction products with polyurethane-urea 45189-99-9DP, reaction products with polyurethane-urea 83349-38-6DP, reaction products with polyurethane-urea 222405-56-3DP,
aminopropyltriethoxysilyl end-capped
 444313-66-0DP, reaction products with polyurethane-urea 467468-24-2DP, **aminopropyltriethoxysilyl end-capped** 467468-25-3DP,
aminopropyltriethoxysilyl end-capped
 467468-26-4DP, **aminopropyltriethoxysilyl end-capped** 467468-27-5DP,
aminopropyltriethoxysilyl end-capped
 467468-28-6DP, **aminopropyltriethoxysilyl end-capped**
 (**silylated** polyurethane-urea compns. for cosmetic use)

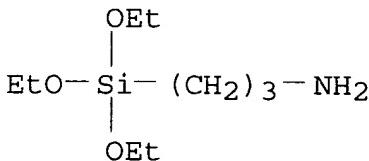
L72 ANSWER 3 OF 11 HCPLUS COPYRIGHT 2003 ACS on STN
 2002:730314 Document No. 137:249264 Scented **ink** composition and its preparation. Vernardakis, Theodore G.; Nasilevich, Natan (BCM Inks USA Incorporated, USA). U.S. US 6454842 B1 20020924, 6 pp. (English). CODEN: USXXAM. APPLICATION: US 2001-933501 20010820.

AB A scented **ink** compn. is made by (a) prep. a mixt. which includes a polymer component consisting of a water-sol. polymer selected from acrylic, styrene-maleic anhydride, **sulfonated polyester**, polyamide, and **polyurethane**, (b) adding a color component selected from a pigment and a dye, (c) adding a solvent component comprising H₂O, (d) stirring and adding oil-based fragrance to form a microemulsion, where the resin stabilizes the microdroplets of the oil-based fragrance by coating the microdroplets. Preferably, the microdroplets have a diam. apprx.0.1-1.0 .mu.m.

IC ICM C09D001-00
 ICS C08F002-32
 NCL 106031020
 CC 42-12 (Coatings, Inks, and Related Products)
 ST scented microemulsion ink polymer colorant fragrance
 IT Dyes
 (acid; scented ink compn. of water-sol. polymer,
 colorant, and oil-based fragrance)
 IT Dyes
 (basic; scented ink compn. of water-sol. polymer,
 colorant, and oil-based fragrance)
 IT Dyes
 (direct; scented ink compn. of water-sol. polymer,
 colorant, and oil-based fragrance)
 IT Inks
 (microemulsion; scented ink compn. of water-sol.
 polymer, colorant, and oil-based fragrance)
 IT Cherry
 Chocolate
 Coffee (Coffea)
 Disperse dyes
 Lemon (Citrus limon)
 Peppermint (Mentha piperita)
 Perfumes
 Pigments, nonbiological
 (scented ink compn. of water-sol. polymer, colorant,
 and oil-based fragrance)
 IT Carbon black, uses
 Polyamides, uses
 Polyurethanes, uses
 (scented ink compn. of water-sol. polymer, colorant,
 and oil-based fragrance)
 IT Polyesters, uses
 (sulfo-contg.; scented ink compn. of water-sol.
 polymer, colorant, and oil-based fragrance)
 IT Fluoropolymers, uses
 (wax; scented ink compn. of water-sol. polymer,
 colorant, and oil-based fragrance)
 IT 1332-37-2, Iron oxide, uses 13463-67-7, Titanium oxide, uses
 25585-77-7, Joncryl 678 113988-67-3, Eastek 1300 117347-69-0,
 NeoCryl A 6037 173359-06-3, Joncryl SCX-2630 194369-07-8, Eastek
 2140 224565-89-3, Joncryl ECO-2177
 (scented ink compn. of water-sol. polymer, colorant,
 and oil-based fragrance)
 IT 9002-84-0, Polytetrafluoroethylene 9002-88-4, Polyethylene
 9003-07-0, Polypropylene
 (wax; scented ink compn. of water-sol. polymer,
 colorant, and oil-based fragrance)

Mickus, Daniel E. (Minnesota Mining and Manufacturing Company, USA).
 PCT Int. Appl. WO 9952676 A1 19991021, 57 pp. DESIGNATED STATES:
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
 DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
 KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
 MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
 UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW:
 AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,
 GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English).
 CODEN: PIXXD2. APPLICATION: WO 1999-US6828 19990329. PRIORITY: US
 1998-59118 19980413.

- AB An abrasive article is provided that includes a tie coat which improves adhesion between an abrasive layer and a backing in the abrasive article. The tie coat is preferably formed from a tie coat precursor comprising a sulfopoly(ester-urethane) component comprising in its backbone at least one non-terminal arylene or alkylene group comprising a pendant sulfonic acid group or salt, said aliph. or arom. group being bonded directly to ester groups and wherein the polymer is terminated by at least one hydrolyzable silyl group. Preferably, the abrasive article is a structured abrasive article. Also provided is a method for making an abrasive article.
- IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with sulfo polyester-polyurethanes 246856-69-9DP, Dimethyl 5-sodiosulfoisophthalate-diethylene glycol-.epsilon.-caprolactone-PCP 201-ethylene glycol-isophorone diisocyanate copolymer, reaction products with aminosilanes
 (abrasive article with tie coat and method)
- RN 919-30-2 HCPLUS
- CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



- RN 246856-69-9 HCPLUS
- CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, Niax PCP 201, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

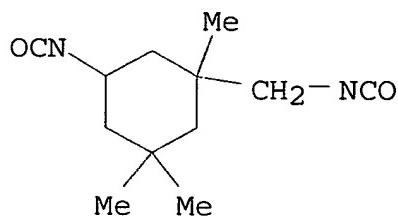
CM 1

CRN 97123-87-0
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

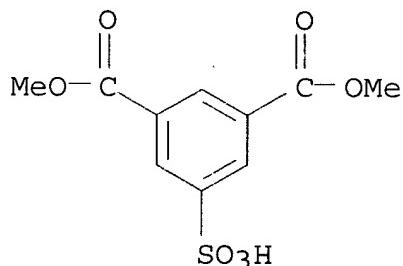
CM 2

CRN 4098-71-9
CMF C12 H18 N2 O2



CM 3

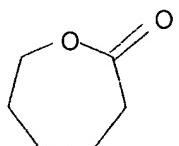
CRN 3965-55-7
CMF C10 H10 O7 S . Na



● Na

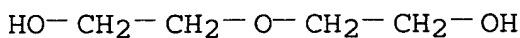
CM 4

CRN 502-44-3
CMF C6 H10 O2



CM 5

CRN 111-46-6
 CMF C4 H10 O3



CM 6

CRN 107-21-1
 CMF C2 H6 O2



IC ICM B24D003-28
 ICS B24D011-00; C08G018-10; C08G018-28; C08G018-08
 CC 38-3 (Plastics Fabrication and Uses)
 IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with sulfo polyester-polyurethanes 246856-69-9DP, Dimethyl 5-sodiosulfoisophthalate-diethylene glycol-.epsilon.-caprolactone-PCP 201-ethylene glycol-isophorone diisocyanate copolymer, reaction products with aminosilanes
 (abrasive article with tie coat and method)

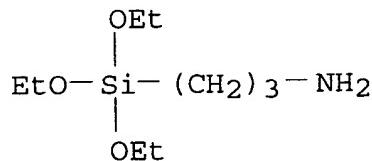
L72 ANSWER 5 OF 11 HCPLUS COPYRIGHT 2003 ACS on STN
 1999:222974 Document No. 130:283469 **Silyl-terminated**
 sulfopolyester-polyurethanes with reduced water absorption, their preparation and use in paints. Krepksi, Larry R.; Heilmann, Steven M.; Mickus, Daniel E.; Larson, Wayne K. (Minnesota Mining and Manufacturing Company, USA). PCT Int. Appl. WO 9915572 A1 19990401, 55 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-US11833 19980609.
 PRIORITY: US 1997-937487 19970925.

AB The sulfo-contg. polyester-polyurethanes (A) are prep'd. from a chain-extended sulfopolyester polyol which itself has been prep'd. in a 2-step method, the A comprising in the backbone .gtoreq.1 nonterminal arylene or alkylene group having a pendant SO₃H group or its salt which is bonded directly through the aliph. or arom. group to ester groups, the A being terminated by .gtoreq.1 hydrolyzable silyl group; the 2-step method for prep'g. the chain-extended

sulfopolyester polyol comprises (a) condensing a sulfopolycarboxylic acid or ester with a polyol to produce a sulfopolyester polyol and (b) chain-extending with a lower aliph. lactone; the product is then polymd. with a polyisocyanate and a polyol, polyamine, and/or polythiol, and the polymer terminated by reaction with a hydrolyzable silane. The products may be used as binders in paints, esp. traffic-marking paints. Thus, 0.25 mol di-Me 5-(sodiosulfo)isophthalate was transesterified with 1.25 mol 1,4-cyclohexanedimethanol, and the resulting mixt. was condensed with 2.0 mol .epsilon.-caprolactone to give a polyol mixt. of which 25 mol% was sulfonated. The polyol mixt. (55.9 g) was polymd. with PCP 0201 62.9, ethylene glycol 5.58, and isophorone diisocyanate 79.9 g and terminated by reaction with 11.7 g H₂N(CH₂)₃Si(OEt)₃ to give a polymer from which was cast a film with Tg 29.degree., tensile strength 28.6 MPa, and elongation 341%.

IT 919-30-2DP, (3-Aminopropyl)triethoxysilane, reaction products with polyester-polyurethanes 222169-91-7DP, .epsilon.-Caprolactone-diethylene glycol-dimethyl 5-(sodiosulfo)isophthalate-ethylene glycol-isophorone diisocyanate block copolymer, hydrolyzable **silyl** group-terminated 222169-92-8DP, .epsilon.-Caprolactone-diethylene glycol-dimethyl 5-(sodiosulfo)isophthalate-ethylenediamine-isophorone diisocyanate block copolymer, hydrolyzable **silyl** group-terminated 222405-52-9DP, .epsilon.-Caprolactone-1,4-cyclohexanedimethanol-dimethyl 5-(sodiosulfo)isophthalate-ethylene glycol-isophorone diisocyanate-Tone 0201 block copolymer, hydrolyzable **silyl** group-terminated 222405-56-3DP, .epsilon.-Caprolactone-diethylene glycol-dimethyl 5-(sodiosulfo)isophthalate-ethylene glycol-isophorone diisocyanate-Tone 0201 block copolymer, hydrolyzable **silyl** group-terminated 222405-61-0DP, 1,4-Butanediol-.epsilon.-caprolactone-diethylene glycol-dimethyl 5-(sodiosulfo)isophthalate-isophorone diisocyanate-Tone 0201 block copolymer, hydrolyzable **silyl** group-terminated 222532-15-2DP, hydrolyzable **silyl** group-terminated (silyl-terminated sulfopolyester-polyurethanes with reduced water absorption for use in paints)

RN 919-30-2 HCPLUS
CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)

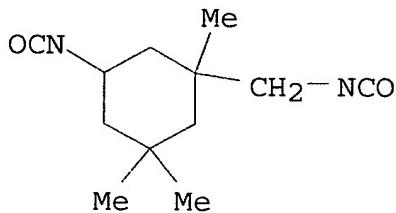


RN 222169-91-7 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium

salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol], block (9CI) (CA INDEX NAME)

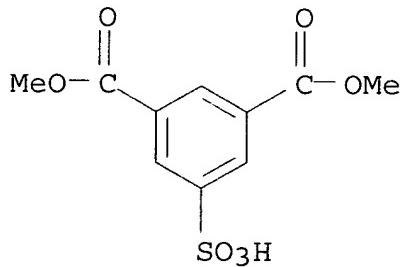
CM 1

CRN 4098-71-9
CMF C12 H18 N2 O2



CM 2

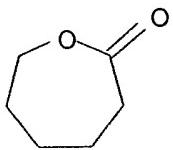
CRN 3965-55-7
CMF C10 H10 O7 S . Na



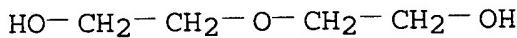
● Na

CM 3

CRN 502-44-3
CMF C6 H10 O2



CM 4

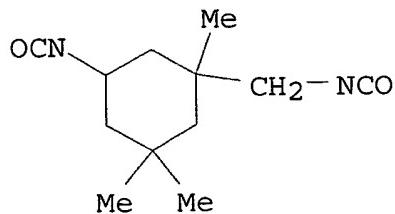
CRN 111-46-6
CMF C4 H10 O3

CM 5

CRN 107-21-1
CMF C2 H6 O2

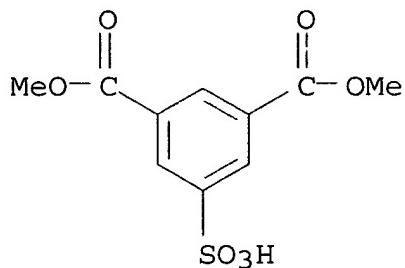
RN 222169-92-8 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediamine, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol], block (9CI) (CA INDEX NAME)

CM 1

CRN 4098-71-9
CMF C12 H18 N2 O2

CM 2

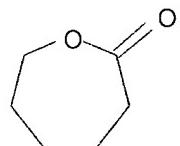
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

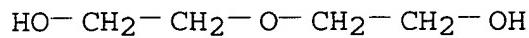
CM 3

CRN 502-44-3
 CMF C6 H10 O2



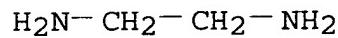
CM 4

CRN 111-46-6
 CMF C4 H10 O3



CM 5

CRN 107-15-3
 CMF C2 H8 N2

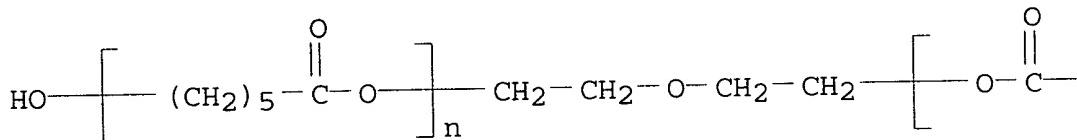


RN 222405-52-9 HCPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,4-cyclohexanediethanol, 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block (9CI) (CA INDEX NAME)

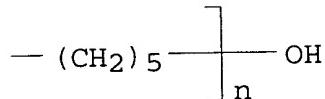
CM 1

CRN 50327-24-7
 CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃
 CCI PMS

PAGE 1-A

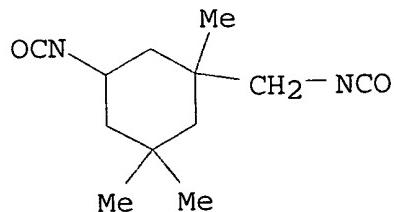


PAGE 1-B



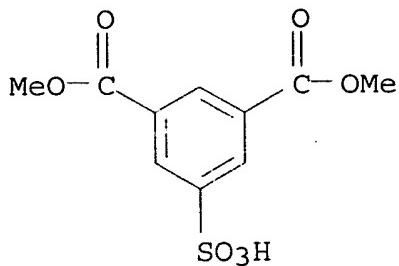
CM 2

CRN 4098-71-9
 CMF C₁₂ H₁₈ N₂ O₂



CM 3

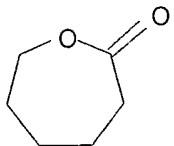
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

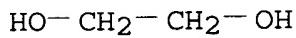
CM 4

CRN 502-44-3
 CMF C6 H10 O2



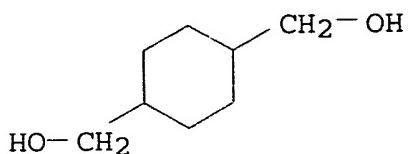
CM 5

CRN 107-21-1
 CMF C2 H6 O2



CM 6

CRN 105-08-8
 CMF C8 H16 O2



RN 222405-56-3 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone, 2,2'-oxybis[ethanol] and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block (9CI) (CA INDEX NAME)

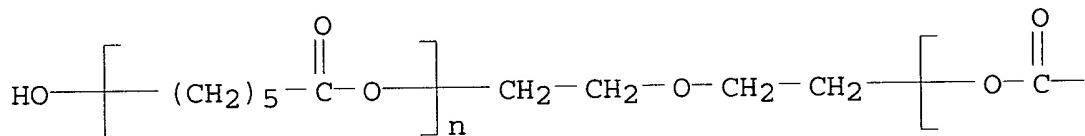
CM 1

CRN 50327-24-7

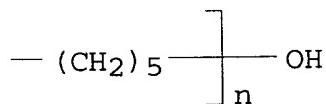
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₄ H₁₀ O₃

CCI PMS

PAGE 1-A



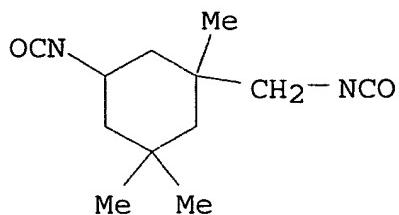
PAGE 1-B



CM 2

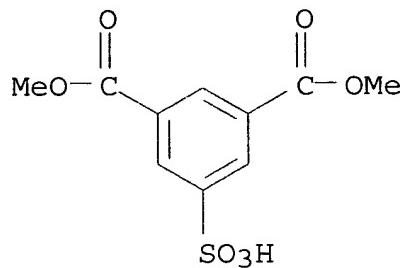
CRN 4098-71-9

CMF C₁₂ H₁₈ N₂ O₂



CM 3

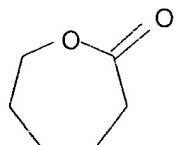
CRN 3965-55-7
 CMF C10 H10 O7 S . Na



● Na

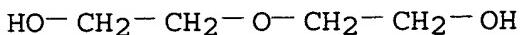
CM 4

CRN 502-44-3
 CMF C6 H10 O2



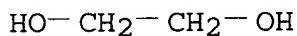
CM 5

CRN 111-46-6
 CMF C4 H10 O3



CM 6

CRN 107-21-1
CMF C2 H6 O2



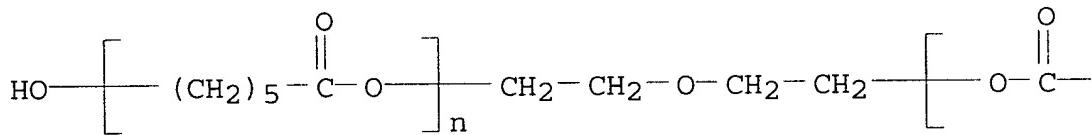
RN 222405-61-0 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,4-butanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone, 2,2'-oxybis[ethanol] and .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)]], block (9CI) (CA INDEX NAME)

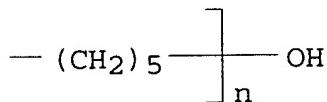
CM 1

CRN 50327-24-7
CMF (C6 H10 O2)n (C6 H10 O2)n C4 H10 O3
CCI PMS

PAGE 1-A

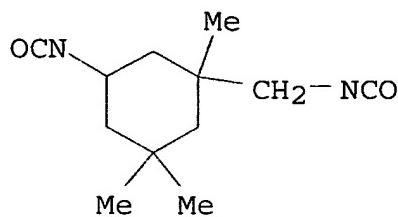


PAGE 1-B



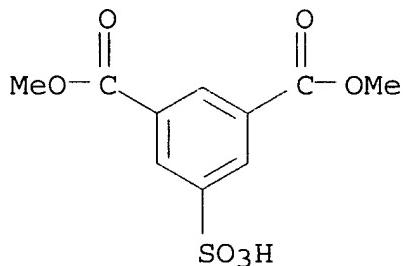
CM 2

CRN 4098-71-9
CMF C12 H18 N2 O2



CM 3

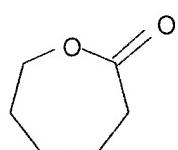
CRN 3965-55-7
 CMF C₁₀ H₁₀ O₇ S . Na



● Na

CM 4

CRN 502-44-3
 CMF C₆ H₁₀ O₂



CM 5

CRN 111-46-6
 CMF C₄ H₁₀ O₃

HO-CH2-CH2-O-CH2-CH2-OH

CM 6

CRN 110-63-4
CMF C4 H10 O2

HO-(CH2)4-OH

RN 222532-15-2 HCPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone, 2,2'-oxybis[ethanol] and PC 1667, block (9CI) (CA INDEX NAME)

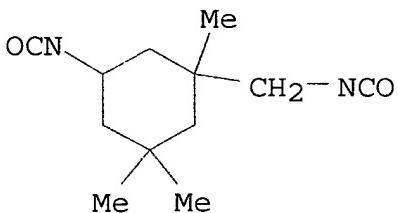
CM 1

CRN 222531-89-7
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

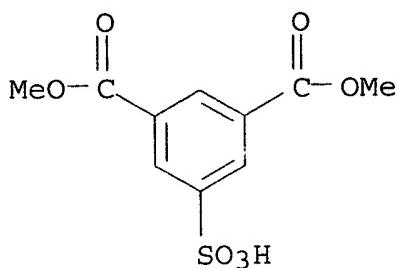
CM 2

CRN 4098-71-9
CMF C12 H18 N2 O2



CM 3

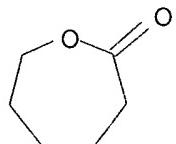
CRN 3965-55-7
CMF C10 H10 O7 S . Na



● Na

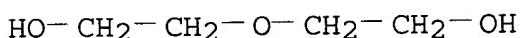
CM 4

CRN 502-44-3
CMF C6 H10 O2



CM 5

CRN 111-46-6
CMF C4 H10 O3



CM 6

CRN 107-21-1
CMF C₂ H₆ O₂



IC ICM C08G018-08
ICS C08G018-46; C08G018-71; C08G018-83; C08G018-10

CC 42-10 (Coatings, Inks, and Related Products)
 ST polyester polyurethane sulfo contg **silyl**
terminated; water resistance polyester polyurethane
 IT Polyurethanes, uses
 (polyester-, sulfo-contg.; **silyl-terminated**
 sulfopolyester-polyurethanes with reduced water absorption for
 use in paints)
 IT Polyurethanes, uses
 (polyester-polyether-, sulfo-contg.; **silyl-**
 terminated sulfopolyester-polyurethanes with reduced
 water absorption for use in paints)
 IT Polyurethanes, uses
 (polyester-polyether-polyurea-, sulfo-contg.; **silyl-**
 terminated sulfopolyester-polyurethanes with reduced
 water absorption for use in paints)
 IT Coating materials
 (water-resistant, paints; **silyl-terminated**
 sulfopolyester-polyurethanes with reduced water absorption for
 use in paints)
 IT Paints
 (water-resistant; **silyl-terminated**
 sulfopolyester-polyurethanes with reduced water absorption for
 use in paints)
 IT 919-30-2DP, (3-Aminopropyl)triethoxysilane, reaction
 products with polyester-polyurethanes 222169-91-7DP,
 .epsilon.-Caprolactone-diethylene glycol-dimethyl
 5-(sodiosulfo)isophthalate-ethylene glycol-isophorone diisocyanate
 block copolymer, hydrolyzable **silyl** group-
 terminated 222169-92-8DP, .epsilon.-Caprolactone-
 diethylene glycol-dimethyl 5-(sodiosulfo)isophthalate-
 ethylenediamine-isophorone diisocyanate block copolymer,
 hydrolyzable **silyl** group-**terminated**
 222405-52-9DP, .epsilon.-Caprolactone-1,4-
 cyclohexanedimethanol-dimethyl 5-(sodiosulfo)isophthalate-ethylene
 glycol-isophorone diisocyanate-Tone 0201 block copolymer,
 hydrolyzable **silyl** group-**terminated**
 222405-56-3DP, .epsilon.-Caprolactone-diethylene
 glycol-dimethyl 5-(sodiosulfo)isophthalate-ethylene
 glycol-isophorone diisocyanate-Tone 0201 block copolymer,
 hydrolyzable **silyl** group-**terminated**
 222405-61-0DP, 1,4-Butanediol-.epsilon.-caprolactone-
 diethylene glycol-dimethyl 5-(sodiosulfo)isophthalate-isophorone
 diisocyanate-Tone 0201 block copolymer, hydrolyzable **silyl**
 group-**terminated** 222532-15-2DP, hydrolyzable
 silyl group-**terminated**
 (**silyl-terminated** sulfopolyester-
 polyurethanes with reduced water absorption for use in paints)

L72 ANSWER 6 OF 11 HCPLUS COPYRIGHT 2003 ACS on STN
 1997:207647 Document No. 126:200739 **Silyl-terminated**
 sulfonated poly(ester-urethane) compounds useful for low surface
 energy coatings. Larson, Wayne K.; Heilmann, Steven M.; Krepski,

Larry R.; Mickus, Daniel E.; Smith, Howell K., III; Purgett, Mark D.; Borden, Thomas R.; May, David C.; Jacobs, Gregory F.; Hachey, Kathleen A.; Velamakanni, Bhaskar V.; Menzies, Robert H.; Eastin, Brian C.; Schultz, William J. (Minnesota Mining and Mfg. Co., USA). PCT Int. Appl. WO 9703101 A1 19970130, 32 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN: PIXXD2.

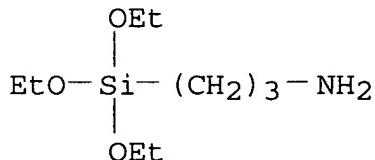
APPLICATION: WO 1996-US10881 19960625. PRIORITY: US 1995-954 19950707; US 1996-609193 19960301.

AB Water-dispersible sulfonated poly(ester-urethane) compds. comprise, in their backbone, at least one arylene or alkylene sulfonic acid group or a salt thereof, the polymer being terminated by at least one hydrolyzable silyl group. The compds. preferably have a sulfonate equiv. wt. of 500-12,000 g-equiv. and a no. av. mol. wt. <50.000. The compds. have utility as durable treatments such as low surface energy coatings that exhibit release towards adhesive materials, grease, and oils. Heating di-Me sodiosulfoisophthalate, polycaprolactone diol (I), and Ti(BuO)₄ at 230.degree. for 4 h, heating the resulting mixt. with addnl. I, ethylene glycol, and MEK, distg. off the MEK, heating with bis(4-cyanatocyclohexyl)methane at 72-85.degree. for 1 h, reacting with 3-aminopropyltriethoxysilane in MEK gave a silanol, and distg. with water gave a 54%-solids dispersion of silanol-terminated poly(ester urethane). A spun cast film of the dispersion exhibited Tg 36.degree. and tensile strength 17.4 MPa at 390% elongation.

IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction product with polyester polyurethane 13822-56-5DP, reaction product with polyester polyurethane 187840-99-9DP, Dimethyl 5-sodiosulfoisophthalate-1,4-cyclohexanedimethanol-.epsilon.-caprolactone-ethylene glycol-isophorone diisocyanate copolymer, **silyl-terminated**
 (silyl-terminated sulfonated poly(ester-urethane) compds. useful for low surface energy coatings)

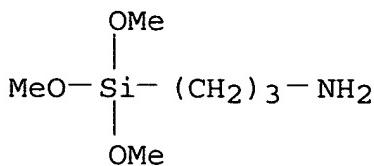
RN 919-30-2 HCPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



RN 13822-56-5 HCPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



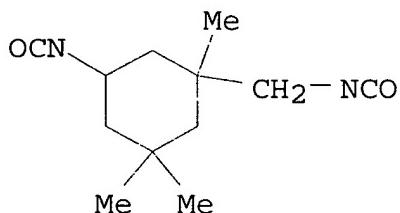
RN 187840-99-9 HCPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,4-cyclohexanedimethanol, 1,2-ethanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2-oxepanone (9CI) (CA INDEX NAME)

CM 1

CRN 4098-71-9

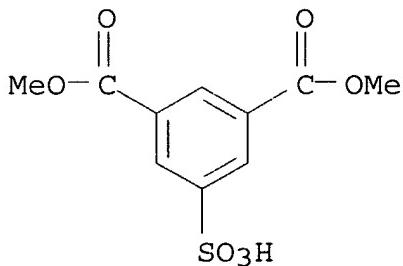
CMF C12 H18 N2 O2



CM 2

CRN 3965-55-7

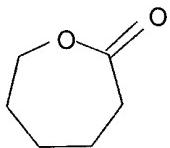
CMF C10 H10 O7 S . Na



Na

CM 3

CRN 502-44-3
 CMF C6 H10 O2



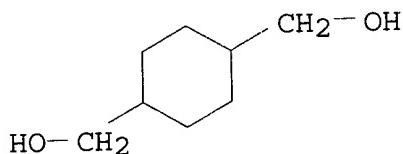
CM 4

CRN 107-21-1
 CMF C2 H6 O2

HO—CH₂—CH₂—OH

CM 5

CRN 105-08-8
 CMF C8 H16 O2



IC ICM C08G018-08
 ICS C08G018-46; C08G018-71; C08G018-10; C08G018-28; C08G018-83;
 C09D175-06

CC 42-10 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 35

ST **silyl terminated** polyester polyurethane release
 coating; dimethyl sodiosulfoisophthalate polycaprolactone polyester
 polyurethane; biscyanatocyclohexylmethane polyester polyurethane
silyl terminated

IT Coating materials
 (antisoiling; **silyl-terminated** sulfonated
 poly(ester-urethane) compds. useful for low surface energy
 coatings)

IT Polyurethanes, uses
 Polyurethanes, uses
 Polyurethanes, uses

(polyester-polysiloxane-; **silyl-terminated**
 sulfonated poly(ester-urethane) compds. useful for low surface
 energy coatings)

IT Polysiloxanes, uses
 Polysiloxanes, uses
 Polysiloxanes, uses
 (polyester-polyurethane-; **silyl-terminated**
 sulfonated poly(ester-urethane) compds. useful for low surface
 energy coatings)

IT Polyesters, uses
 Polyesters, uses
 Polyesters, uses
 (polyurethane-polysiloxane-; **silyl-terminated**
 sulfonated poly(ester-urethane) compds. useful for low surface
 energy coatings)

IT Release coatings
 (**silyl-terminated** sulfonated
 poly(ester-urethane) compds. useful for low surface energy
 coatings)

IT 107-21-1DP, 1,2-Ethanediol, polyester polyurethane, **silyl-**
terminated, uses 919-30-2DP, 3-
 Aminopropyltriethoxysilane, reaction product with polyester
 polyurethane 3965-55-7DP, Dimethyl 5-sodiosulfoisophthalate,
 polyester polyurethane, **silyl-terminated**
 4098-71-9DP, Isophorone diisocyanate, polyester polyurethane,
silyl-terminated 5124-30-1DP, polyester
 polyurethane, **silyl-terminated**
 13822-56-5DP, reaction product with polyester polyurethane
 24801-88-5DP, .gamma.-Isocyanatopropyltriethoxysilane, reaction
 product with polyester polyurethane 24980-41-4DP,
 Polycaprolactone, diol derivs., polyurethanes, **silyl-**
terminated 25037-57-4DP, Octamethylcyclotetrasiloxane
 homopolymer, aminopropyl-terminated, reaction products with
 sulfonated polyester-polyurethane 25248-42-4DP, Polycaprolactone,
 diol derivs., polyurethanes, **silyl-terminated**
 187840-99-9DP, Dimethyl 5-sodiosulfoisophthalate-1,4-
 cyclohexanedimethanol-.epsilon.-caprolactone-ethylene
 glycol-isophorone diisocyanate copolymer, **silyl-**
terminated
 (**silyl-terminated** sulfonated
 poly(ester-urethane) compds. useful for low surface energy
 coatings)

L72 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

1995:985924 Document No. 124:11106 Binder for coating materials containing dispersed inorganic powder, the coating material, and a magnetic recording medium. Yamakawa, Masahiro; Akimoto, Kenji; Nakamura, Katsuya; Takano, Fumio; Takasaki, Takahiro (Nippon Zeon Co., Ltd., Japan). Eur. Pat. Appl. EP 673956 A1 19950927, 39 pp.
 DESIGNATED STATES: R: DE, FR, NL. (English). CODEN: EPXXDW.
 APPLICATION: EP 1995-103368 19950309. PRIORITY: JP 1994-67923
 19940311; JP 1994-72468 19940317; JP 1994-259265 19940929; JP

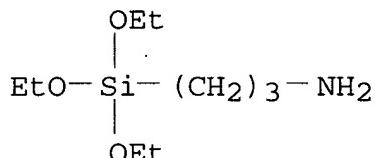
1994-262047 19940930.

AB A binder for coating materials contg. dispersed inorg. (magnetic) powder comprises a polyurethane resin contg. (a) 2.2-7.0 terminal epoxy groups/mol. on av. and (b) 0.1-5.0 wt.% (as SO₃⁻) sulfonic acid salt groups, 0.05-3.0 wt.% (as CO₂⁻) carboxylic acid salt groups, or 0.02-1.0 wt.% (as N⁺) quaternary ammonium salt groups in the mol., and having no.-av. mol. wt. 2000-10,000. A coating material contg. dispersed inorg. powder and a magnetic recording medium both use this binder. In a recording medium comprising a magnetic layer on a nonmagnetic substrate, the magnetic layer comprises (A) a polyurethane resin as a binder, (B) a vinyl chloride polymer contg. 0.1-20 wt.% epoxy groups and having av. d.p. 100-500 as a 2nd binder, (C) an alicyclic acid anhydride as a crosslinking agent, and (E) a tertiary amine as catalyst, at least one of the binders being crosslinked by a reaction between the epoxy groups in which components C and E take part. The magnetic recording material prepd. by using magnetic powder as the inorg. powder and crosslinking the binder is excellent in dispersion of the magnetic powder and smoothness of the surface.

IT 919-30-2, TSL 8331
 (crosslinking agent for epoxy-contg. polyurethane binder for coating materials contg. dispersed inorg. powder)

RN 919-30-2 HCPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



IT 171429-24-6D, reaction products with epoxypropanol
 (polyurethane binder for coating materials contg. dispersed inorg. powder)

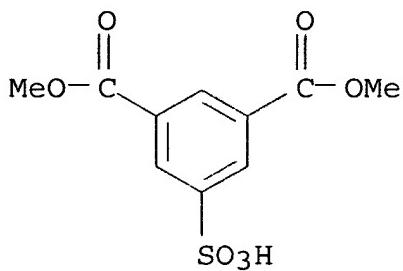
RN 171429-24-6 HCPLUS

CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt, polymer with 1,4-butanediol, 2,4-diisocyanato-1-methylbenzene, 2,2-dimethyl-1,3-propanediol, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, hexanedioic acid and 1,1'-methylenebis[4-isocyanatobenzene], block (9CI) (CA INDEX NAME)

CM 1

CRN 3965-55-7

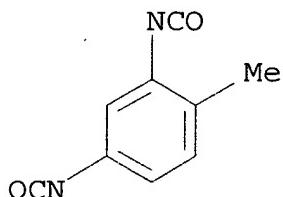
CMF C10 H10 O7 S . Na



● Na

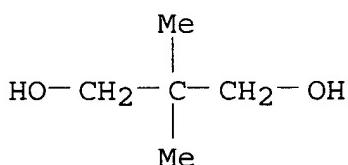
CM 2

CRN 584-84-9
CMF C9 H6 N2 O2



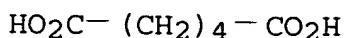
CM 3

CRN 126-30-7
CMF C5 H12 O2



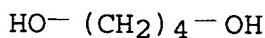
CM 4

CRN 124-04-9
CMF C6 H10 O4



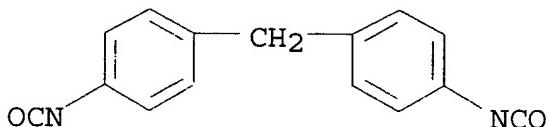
CM 5

CRN 110-63-4
CMF C4 H10 O2



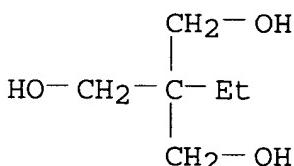
CM 6

CRN 101-68-8
CMF C15 H10 N2 O2



CM 7

CRN 77-99-6
CMF C6 H14 O3



IC ICM C08G018-10
ICS C08G018-28; C08G018-86; C08G018-08; G11B005-702; C09D175-04
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 77
IT 85-44-9, 1,3-Isobenzofurandione 111-40-0, Diethylenetriamine
124-09-4, 1,6-Hexanediamine, uses 919-30-2, TSL 8331
29529-99-5, Zisnet DB 39278-79-0, Coronate L
(crosslinking agent for epoxy-contg. polyurethane binder for
coating materials contg. dispersed inorg. powder)
IT 54-21-7D, Sodium salicylate, reaction products with
isocyanate-terminated polyurethane 124-28-7D,
Dimethylstearylamine, reaction products with epoxy-terminated

polyurethanes 556-52-5D, Glycidol, reaction products with isocyanate-terminated polyurethane 27043-36-3D, Glycerol diglycidyl ether, reaction products with isocyanate-terminated polyurethane 171429-24-6D, reaction products with epoxypropanol 171429-25-7D, bisulfite addn. product, reaction products with glycerol diglycidyl ether 171429-26-8D, reaction products with epoxypropanol and sodium salicylate (polyurethane binder for coating materials contg. dispersed inorg. powder)

L72 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
 1991:431120 Document No. 115:31120 What's new in non-acrylic polymers.
 Podhajny, Richard M. (Graphic Arts Ind., Rockaway, NJ, USA).
 American Ink Maker (1923-2001), 69(2), 10-12, 14-15 (English) 1991.
 CODEN: AMIKAK. ISSN: 0002-8916.

AB A review with 4 refs. on water-based **ink** binders using shellac, oxidizable alkyd and epoxy ester resins, **polyurethanes**, polyamides, and **sulfonated polyesters**.
 CC 42-0 (Coatings, Inks, and Related Products)
 ST review **ink** water based; polyurethane binder **ink** review; polyamide binder **ink** review; polyester binder **ink** review; epoxy binder **ink** review; alkyd binder **ink** review; shellac binder **ink** review
 IT Alkyd resins
 Polyamides, uses and miscellaneous
 Shellac
 Urethane polymers, uses and miscellaneous (binders, for water-based **inks**)
 IT Epoxy resins, compounds (esters, binders, for water-based **inks**)
 IT Polyesters, compounds (sulfonated, binders, for water-based **inks**)
 IT **Inks** (water-thinned, binders for, non-acrylic)

L72 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
 1987:619213 Document No. 107:219213 Polyester films for magnetic cards. Takeda, Naohiro; Otani, Yuzo; Kita, Masahiro; Okajima, Nariaki (Diafoil Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62059635 A2 19870316 Showa, 7 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1985-197608 19850909.

AB White-pigmented polyester films with good adhesion to magnetic or printable layers of magnetic cards are prep'd. by coating with waterborne, anionic polyurethanes and drawing. A PET film contg. 5% TiO₂ was drawn lengthwise, coated with a 65:30:5 (as solids) mixt. of Impranil DLH (aq. **sulfonated polyurethane**), Polyester XWR-901 (aq. sulfonated polyester), and silica sol, drawn transversely, and heated at 210.degree. to give a 250-.mu. film with good adhesion of coating to substrate, magnetic layers, and printing **ink**.
 IC ICM C08J007-04

- ICI ICS B29C055-02; G11B005-704
 ICI B29K067-00, B29L007-00
 CC 42-7 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 77
- L72 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
 1987:600562 Document No. 107:200562 Polyester films for label substrates. Takeda, Naohiro; Otani, Yuzo; Kita, Masahiro; Okajima, Nariaki (Diafoil Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62097890 A2 19870507 Showa, 7 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1985-236478 19851024.
- AB Title labels having good **ink** adhesion, are prep'd. by coating polyester films with aq. solns. of anionic polyurethanes, stretching and coating with air-curable UV-curable and/or electron beam-curable **inks**. A PET film was coated with aq. soln. comprising Impranil DLH (**sulfonate**-contg. **polyurethane**), Finetex ES 670 (**polyester ink**), and alkylol melamine, stretched, heated at 230.degree., then coated with UV-curable **inks** to form a product with good adhesion between **inks** and films, but products prep'd. without the polyurethane coatings showed failure in adhesion tests.
- IC ICM B41M007-00
 ICS C08J007-04
- ICA B29C055-02; B32B027-36
- ICI B29K067-00
- CC 42-10 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38
- ST anionic polyurethane coating polyester film; adhesion **ink**
 polyurethane coated film; PET label anionic urethane coating
- IT Labels
 (poly(ethylene terephthalate) films, urethane coatings for, for good **ink** adhesion)
- IT **Inks**
 (photocurable, for poly(ethylene terephthalate) labels, with good adhesion, urethane coatings for)
- IT 62046-82-6
 (coatings, for polyester labels for good **ink** adhesion)
- IT 25038-59-9, Poly(ethylene terephthalate), uses and miscellaneous
 (films, for labels with good **ink** adhesion, anionic polyurethane coatings for)
- L72 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
 1982:219463 Document No. 96:219463 Water-thinned printing **inks** for plastic films. (Toyobo Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 57010664 A2 19820120 Showa, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1980-84443 19800620.
- AB Urethane polymers derived from polyisocyanates and polyesters of sulfonate salt group-contg. arom. dicarboxylic acid 2-20, arom. dicarboxylic acid 50-98, aliph. or alicyclic dicarboxylic acid 0-30, aliph. or alicyclic glycol 20-100, and bisphenol A polyalkylene glycol ether 0-80 mol and pigments are dispersed in H₂O and

water-miscible solvents to give water-thinned printing **inks** for plastic films. Thus, a mixt. of polyester (prep'd. from di-Me terephthalate 466, di-Me isophthalate 388, di-Me 5-sulfoisophthalate 178, ethylene glycol 443, and neopentyl glycol 400 parts, having mol. wt. 18,000, softening temp. 162.degree.) 100, MeCOEt 200, and hexamethylene diisocyanate 6.7 parts was heated 5 h at 70-75.degree. to give copolymer (I) [81977-93-7] having softening temp. 153.degree.. A compn. of the I 30, iso-PrOH 14, H₂O 56 parts was stirred 3 h at 70-75.degree. to give a stable dispersion. An **ink** of the above dispersion 100, TiO₂ 15, and 50% siloxane soln. in EtOH 0.5 part was ball milled, applied to a poly(ethylene terephthalate) [25038-59-9] film, and dried at 70.degree. to form a 7-.mu. coating having gloss 91%, no blocking, good adhesion to the film, and no change after a day of immersion in H₂O at 30.degree..

IC C09D011-10

ICA C08G018-46

CC 42-12 (Coatings, Inks, and Related Products)

ST polyester polyurethane printing **ink**; sulfo group
Polyester polyurethane; water thinned **ink**

IT **Inks**

(printing, water-thinned, **sulfo** group-contg.

Polyester-polyurethanes for, for

Polyester films)

IT 81977-93-7 81977-94-8 81977-95-9 81990-74-1

(**inks**, water-thinned, for polyester films)

IT 25038-59-9, uses and miscellaneous

(printing **inks** for films of, **sulfo** group-contg. **Polyester-polyurethanes** for water-thinned)

=> d 173 1-8 cbib abs hitstr hitind

L73 ANSWER 1 OF 8 HCPLUS COPYRIGHT 2003 ACS on STN

2003:443892 Document No. 139:22841 Manufacture of solventless fine polyurethane resin aqueous dispersions. Tanaka, Tadashi (Sanyo Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2003165818 A2 20030610, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-274834 20020920. PRIORITY: JP 2001-289303 20010921.

AB The dispersions useful for coating, paints, finishing agents for paper or textile, etc., are obtained by (A) mixing an isocyanate group-terminated prepolymer bearing ionic groups or/and ionic group-forming groups with an NCO-free reactive diluent, (2) suspending the resulting mixt. in an aq. medium, and (3) chain-extending the prepolymer with an extender in the aq. medium where the reactivity of the selected diluent to NCO group is lower than that of a secondary amine and the diluent has a viscosity of 0.1-10 Pa.cndot.s. Thus, prep. a prepolymer from dimethylolpropionic acid 134, Sanestor 45620 (polyester polyol) 2000 and IPDI 666 parts, and mixing 100 parts the prepolymer (terminal NCO group 3.0%, viscosity 40 Pa.cndot.s) with 25 parts a reactive

diluent derived from hydrazine hydrate-modified IPDI-Sannix PP 2000 (PPG) copolymer (viscosity at 90.degree. 0.6 Pa.cntdot.s; Mn 3500) at 90.degree. gave a mixt. with viscosity of 15 Pa.cntdot.s. Mixing 100 parts the mixt. with 114 parts water and 11.9 parts ethylenediamine (10% aq. soln.) gave an extended product in aq. dispersion with nonvolatile fraction 45%, viscosity 125 mPa.cntdot.s and fine particles with diam. of 75 nm. Casting a 100:5 mixt. of the dispersion and Aquanate 100 (isocyanate crosslinker) in a polypropylene tray and drying gave a cured film with good resistance to warm water and shear modulus at 60.degree. of 8x10⁷ dyne/cm².

IT 537047-70-4P, 3-(2,3-Dihydroxypropoxy)-1-propanesulfonic acid-Sannix PP 2000-IPDI copolymer (prepolymer; reactive diluents and solventless fine polyurethane resin aq. dispersions)

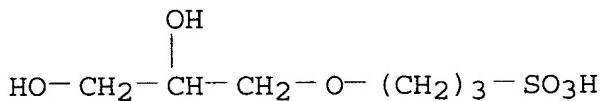
RN 537047-70-4 HCPLUS

CN 1-Propanesulfonic acid, 3-(2,3-dihydroxypropoxy)-, polymer with .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 193954-01-7

CMF C6 H14 O6 S

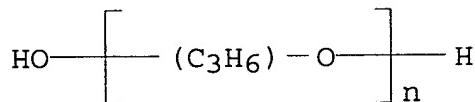


CM 2

CRN 25322-69-4

CMF (C₃H₆O)_n H₂O

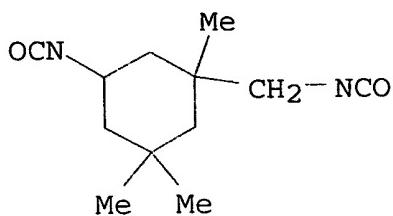
CCI IDS, PMS



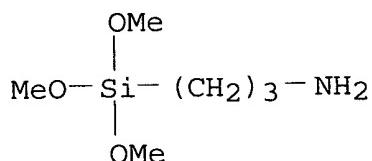
CM 3

CRN 4098-71-9

CMF C₁₂ H₁₈ N₂ O₂



IT 13822-56-5DP, .gamma.-Aminopropyltrimethoxysilane, reaction products with reaction diluents (reactive diluents; reactive diluents and solventless fine polyurethane resin aq. dispersions)
RN 13822-56-5 HCPLUS
CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)

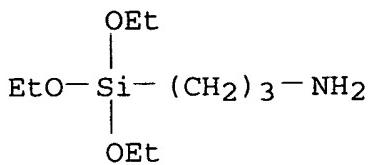


IC ICM C08G018-00
ICS C08G018-65
CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 42
IT 537047-70-4P, 3-(2,3-Dihydroxypropoxy)-1-propanesulfonic acid-Sannix PP 2000-IPDI copolymer 538358-06-4P, Adipic acid-1,4-butanediol-dimethylolpropionic acid-isophorone diisocyanate-neopentyl glycol copolymer (prepolymer; reactive diluents and solventless fine polyurethane resin aq. dispersions)
IT 50-21-5DP, Lactic acid, reaction products with reaction diluents 141-43-5DP, Monoethanolamine, reaction products with reaction diluents 818-61-1DP, reaction products with reaction diluents 7803-57-8DP, Hydrazine hydrate, reaction products with reaction diluents 13822-56-5DP, .gamma.-Aminopropyltrimethoxysilane, reaction products with reaction diluents 16801-25-5DP, Ethylene glycol monoglycidyl ether, reaction products with reaction diluents 39323-37-0DP, IPDI-Sannix PP 2000 copolymer, reaction products with hydrazine hydrate (reactive diluents; reactive diluents and solventless fine polyurethane resin aq. dispersions)

L73 ANSWER 2 OF 8 HCPLUS COPYRIGHT 2003 ACS on STN
2002:629306 Document No. 137:338330 Synthesis and properties of waterborne self-crosslinkable sulfo-urethane silanol dispersions. Lewandowski, Kevin; Krepinski, Larry R.; Mickus, Daniel E.; Roberts, Ralph R.; Heilmann, Steven M.; Larson, Wayne K.; Purgett, Mark D.;

Koecher, Steven D.; Johnson, Stephen A.; McGurran, Daniel J.; Rueb, Chris J.; Pathre, Sadanand V.; Thakur, Khalid A. M. (3M Science Research Center, 3M Center, St. Paul, MN, 55144, USA). Journal of Polymer Science, Part A: Polymer Chemistry, 40(17), 3037-3045 (English) 2002. CODEN: JPACEC. ISSN: 0887-624X. Publisher: John Wiley & Sons, Inc..

- AB A novel type of crosslinkable waterborne polyurethane ionomer was prep'd. by the acetone process. Two new types of sulfonated diols compatible with this process were synthesized from di-Me 5-sodium sulfo isophthalate using a one- or two-stage method. Isocyanate-terminated polyurethane oligomers were prep'd. from the sulfonated diols with various combinations of diols and diisocyanates and subsequently reacted with amino silane derivs. Stable, low-volatile org. chem., waterborne dispersions of the sulfo-urethane silanol polymers spontaneously crosslink upon drying without extra additives or processing steps. Despite the lack of org. coalescing solvents, the dispersions have min. film-forming temps. below 10.degree.C, regardless of glass-transition temp. Tensile strengths up to 6000 psi with elongations between 300 and 600% were obtained for the crosslinked films. The hard-segment content of the films can be controlled to produce films with a Sward-Rocker hardness value up to 42. Through silane end-group modification, the crosslinking d. of the films can also be modified to produce polyurethanes with a wide range of phys. properties.
- IT 919-30-2DP, reaction products with polyester-polyurethanes, hydrolyzed, polymers 474022-18-9DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-18-9P 474022-19-0DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-19-0P 474022-20-3DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-20-3P 474022-21-4DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-21-4P 474022-22-5DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-22-5P 474022-23-6DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-23-6P 474022-24-7DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-24-7P 474022-25-8DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-25-8P 474022-26-9DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-26-9P 474022-27-0DP, reaction products with aminopropyltriethoxysilanes, hydrolyzed, polymers 474022-27-0P
 (synthesis and mech. and thermal properties of waterborne self-crosslinkable sulfo-urethane silanol dispersions)
- RN 919-30-2 HCPLUS
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



RN 474022-18-9 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

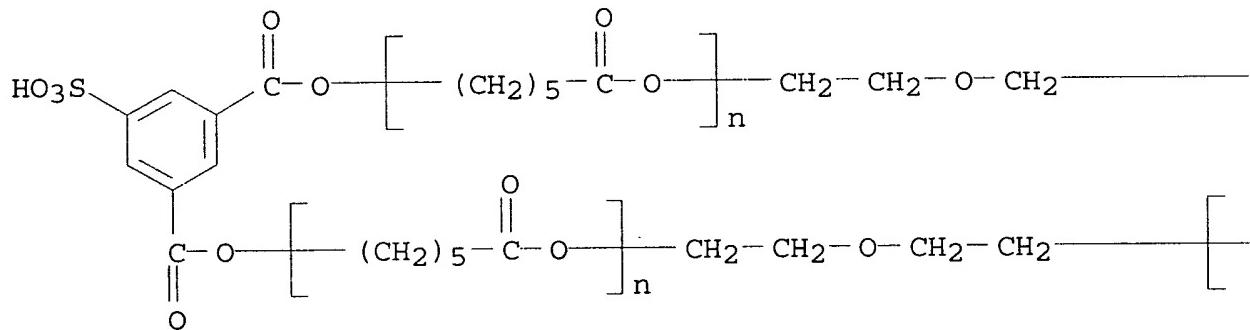
CRN 115218-25-2

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S . Na

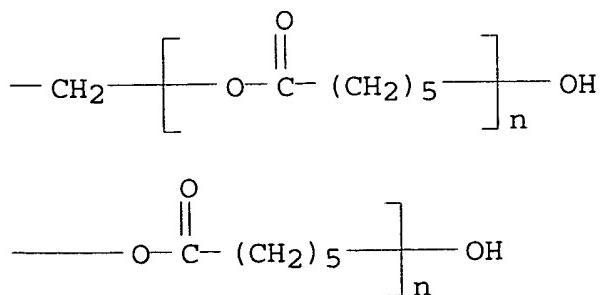
CCI PMS

PAGE 1-A



● Na

PAGE 1-B



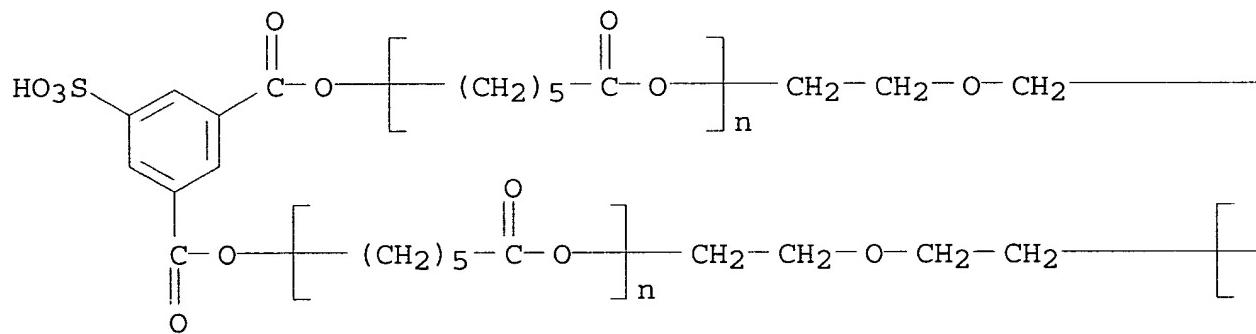
CM 2

CRN 822-06-0
CMF C8 H12 N2 O2OCN-(CH₂)₆-NCORN 474022-18-9 HCAPLUS
CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

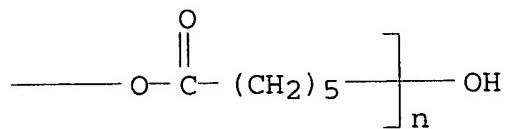
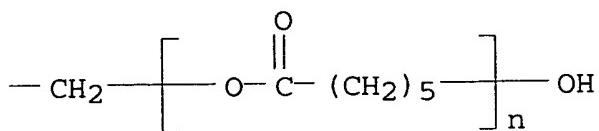
CRN 115218-25-2
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁
S . Na
CCI PMS

PAGE 1-A



● Na

PAGE 1-B



CM 2

CRN 822-06-0
 CMF C8 H12 N2 O2

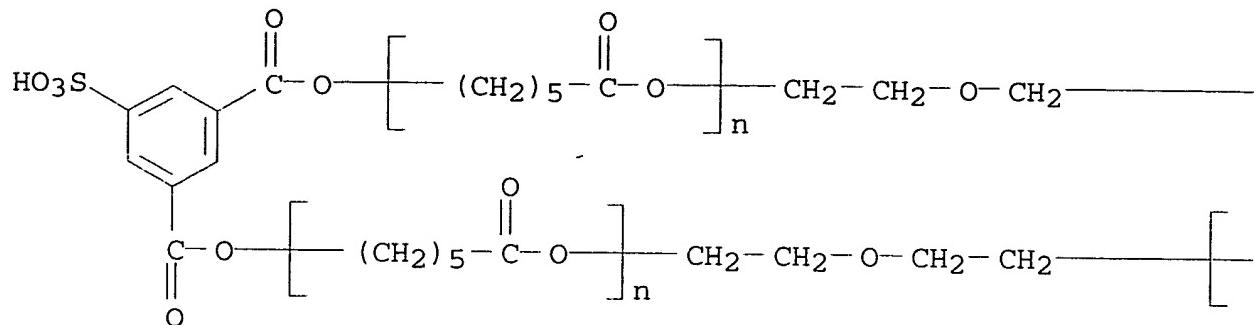
OCN—(CH₂)₆—NCO

RN 474022-19-0 HCAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyI)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

CM 1

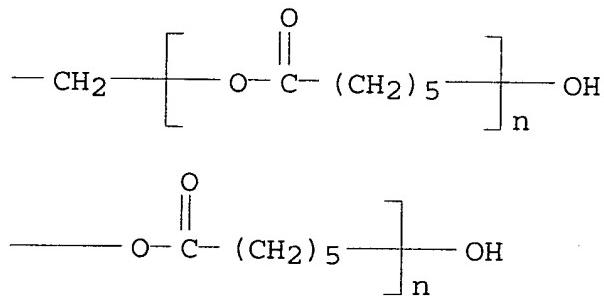
CRN 115218-25-2
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 S . Na
 CCI PMS

PAGE 1-A



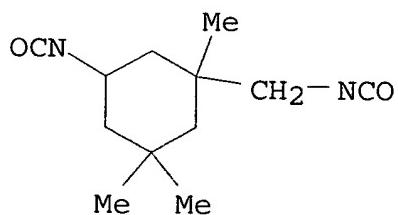
● Na

PAGE 1-B



CM 2

CRN 4098-71-9
 CMF C12 H18 N2 O2



RN 474022-19-0 HCAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate

(2:1), sodium salt, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)

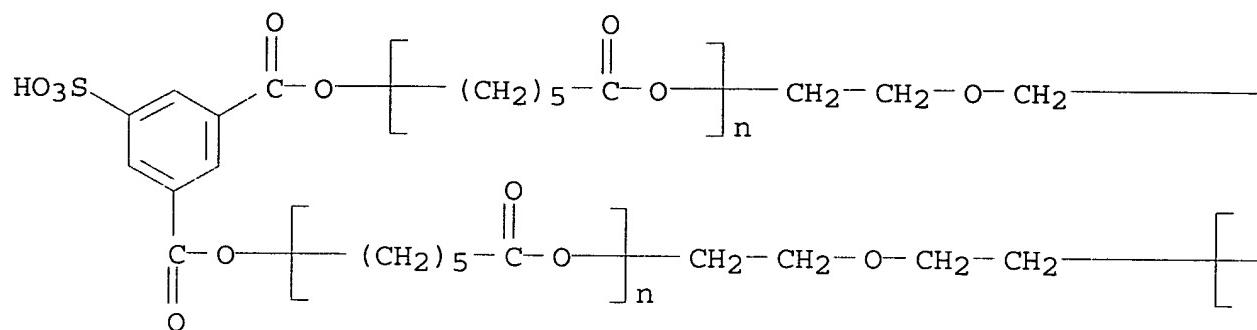
CM 1

CRN 115218-25-2

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S . Na

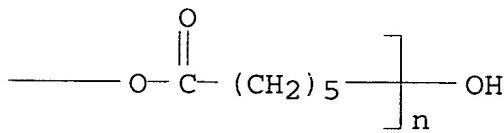
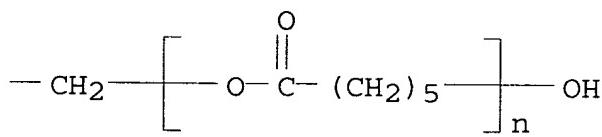
CCI PMS

PAGE 1-A



● Na

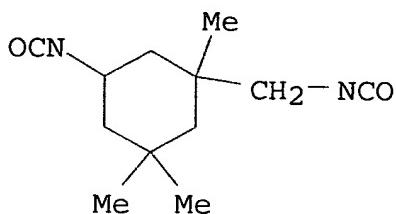
PAGE 1-B



CM 2

CRN 4098-71-9

CMF C₁₂ H₁₈ N₂ O₂



RN 474022-20-3 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] (9CI) (CA INDEX NAME)

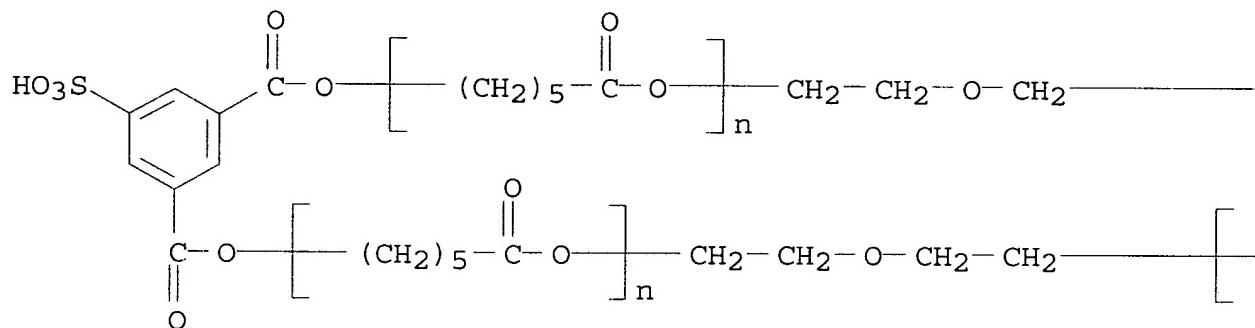
CM 1

CRN 115218-25-2

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S . Na

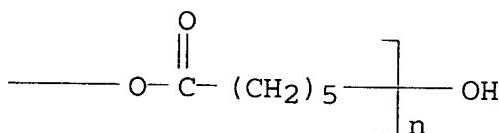
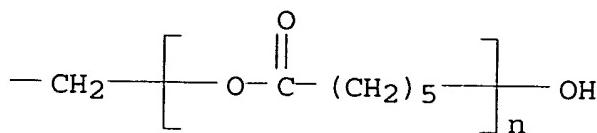
CCI PMS

PAGE 1-A



● Na

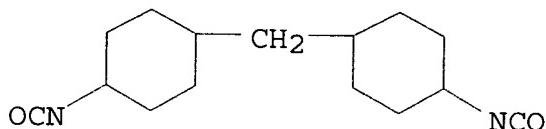
PAGE 1-B



CM 2

CRN 5124-30-1

CMF C15 H22 N2 O2



RN 474022-20-3 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] (9CI) (CA INDEX NAME)

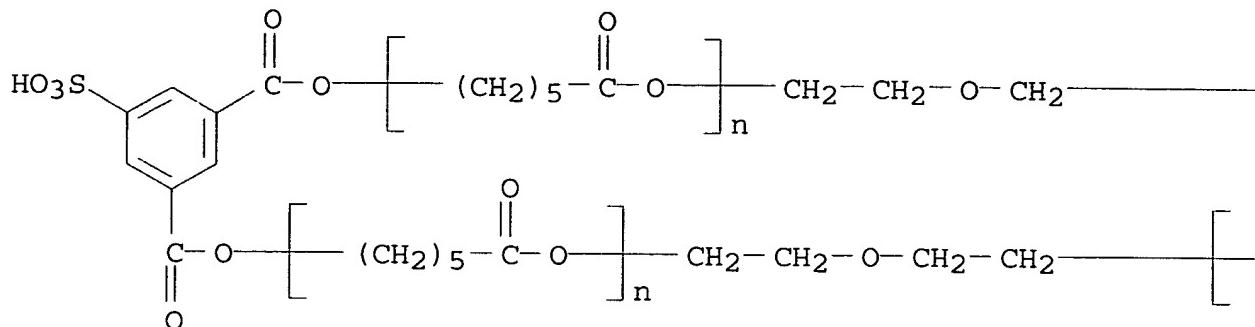
CM 1

CRN 115218-25-2

CMF $(\text{C}_6 \text{ H}_{10} \text{ O}_2)_n$ $(\text{C}_6 \text{ H}_{10} \text{ O}_2)_n$ $(\text{C}_6 \text{ H}_{10} \text{ O}_2)_n$ $(\text{C}_6 \text{ H}_{10} \text{ O}_2)_n$ C16 H22 O11
S . Na

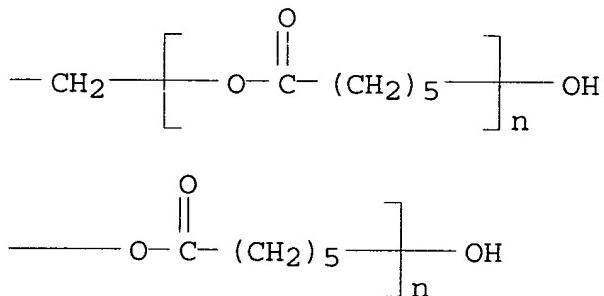
CCI PMS

PAGE 1-A



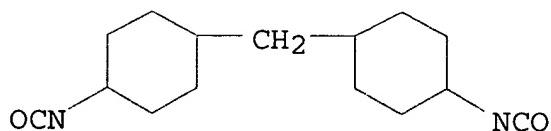
● Na

PAGE 1-B



CM 2

CRN 5124-30-1
 CMF C15 H22 N2 O2



RN 474022-21-4 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

CM 1

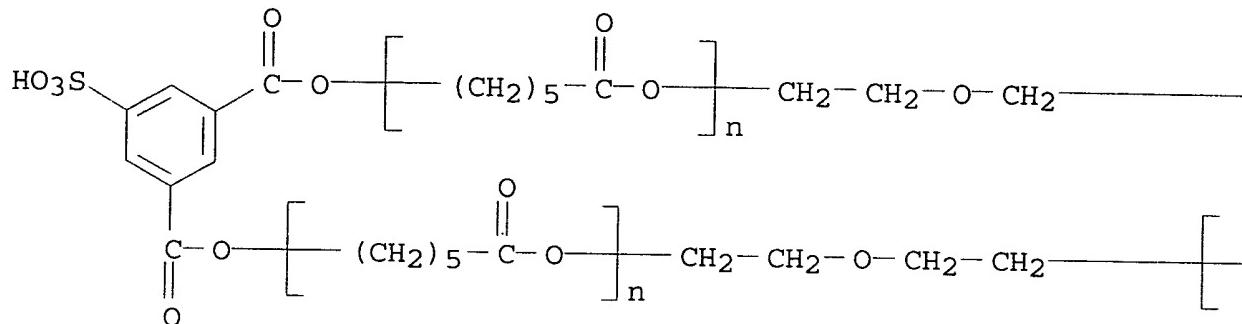
CRN 115218-25-2

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁

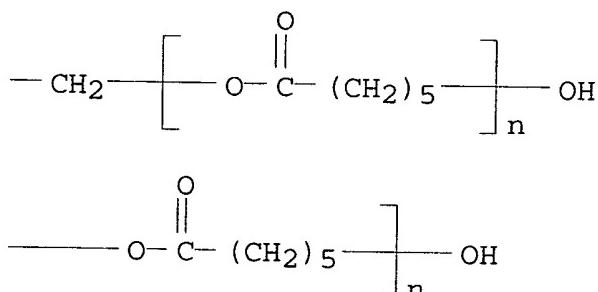
S . Na

CCI PMS

PAGE 1-A

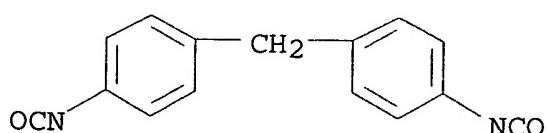


PAGE 1-B



CM 2

CRN 101-68-8

CMF C₁₅ H₁₀ N₂ O₂

RN 474022-21-4 HCPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

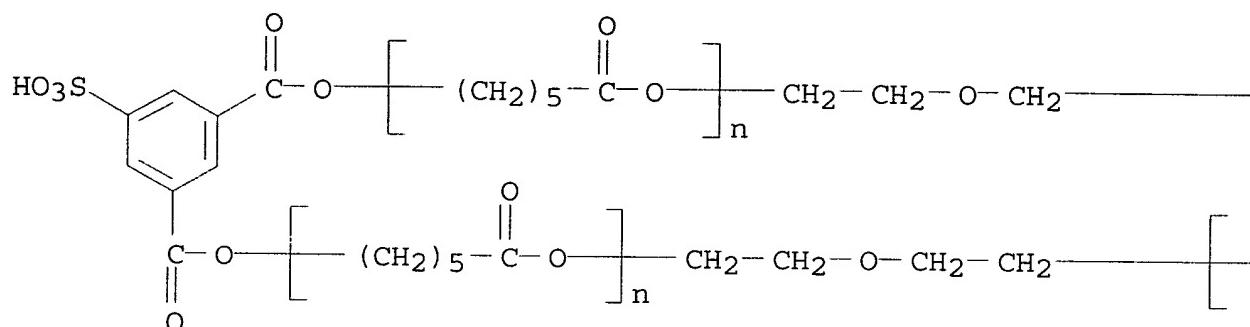
CM 1

CRN 115218-25-2

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁
S . Na

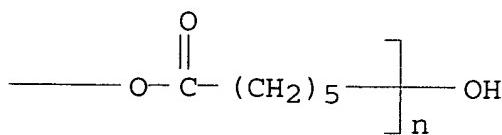
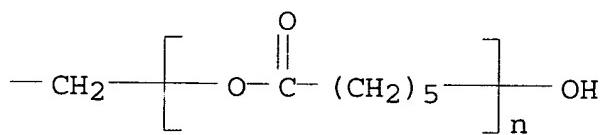
CCI PMS

PAGE 1-A



● Na

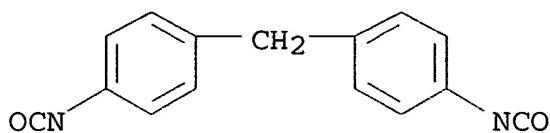
PAGE 1-B



CM 2

CRN 101-68-8

CMF C₁₅ H₁₀ N₂ O₂



RN 474022-22-5 HCPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

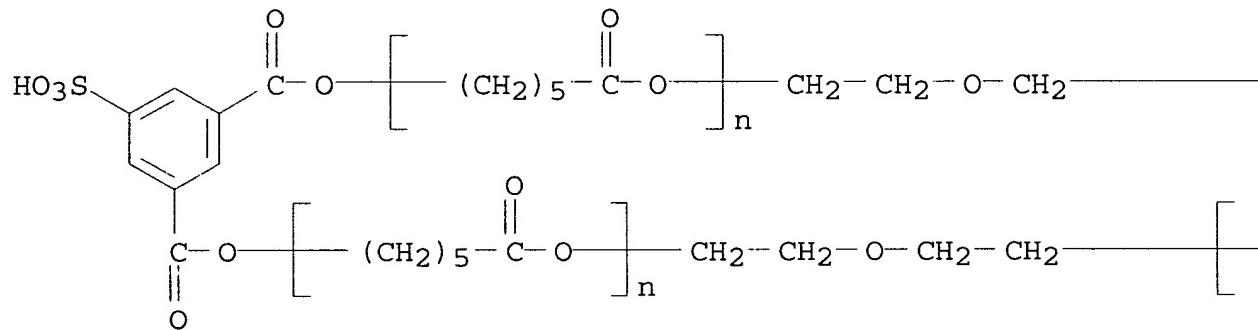
CM 1

CRN 115218-25-2

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁
S . Na

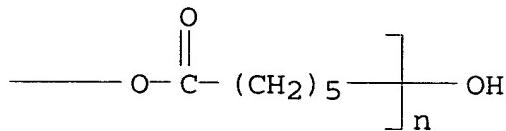
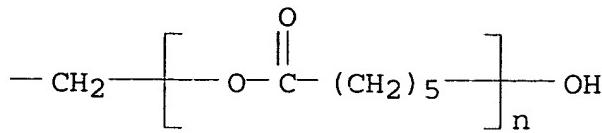
CCI PMS

PAGE 1-A



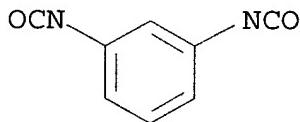
● Na

PAGE 1-B



CM 2

CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



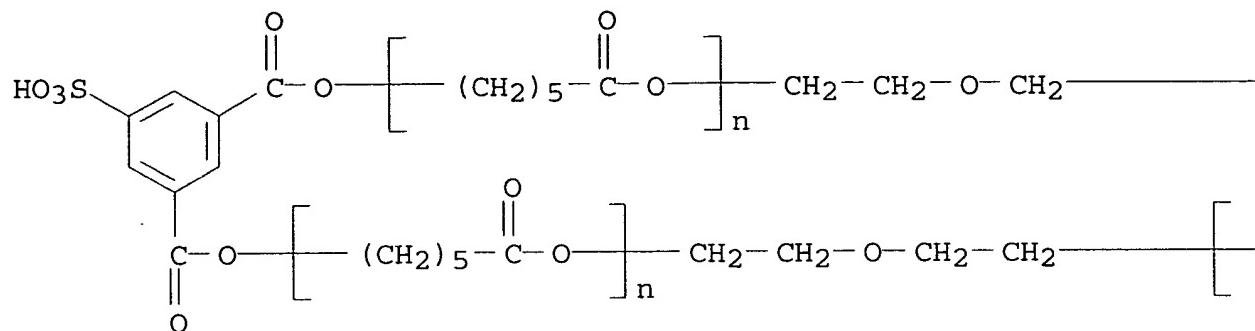
D1-Me

RN 474022-22-5 HCPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-(oxydi-2,1-ethanediyl)bis[.omega.-hydroxy-, 5-sulfo-1,3-benzenedicarboxylate (2:1), sodium salt, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

CM 1

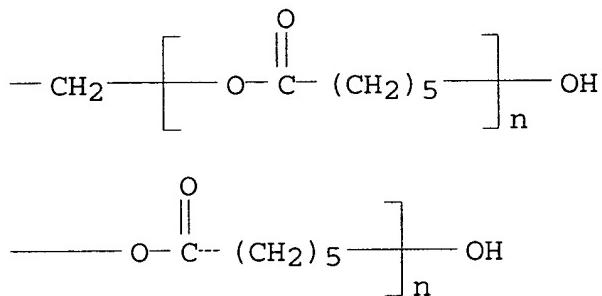
CRN 115218-25-2
 CMF (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n C16 H22 O11 S . Na
 CCI PMS

PAGE 1-A



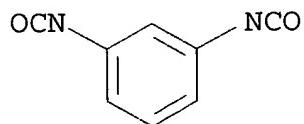
● Na

PAGE 1-B



CM 2

CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



D1-Me

RN 474022-23-6 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

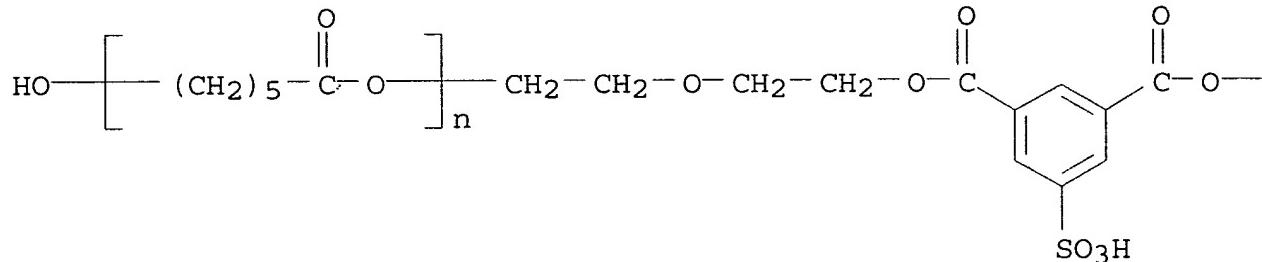
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

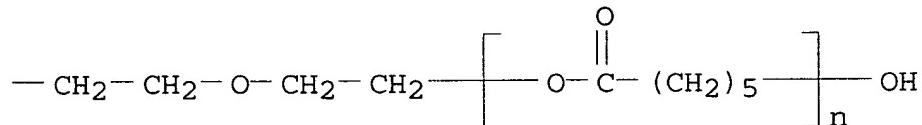
CCI PMS

PAGE 1-A



● Na

PAGE 1-B



CM 2

CRN 822-06-0

CMF C₈ H₁₂ N₂ O₂

OCN-(CH₂)₆-NCO

RN 474022-23-6 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

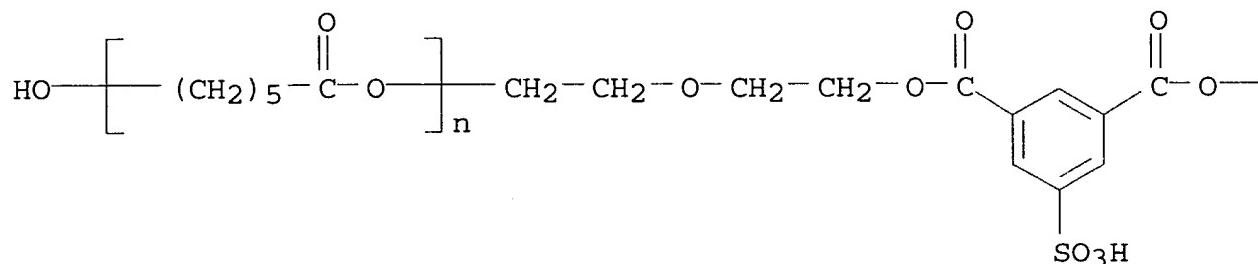
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

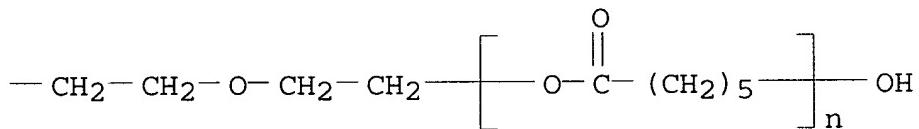
CCI PMS

PAGE 1-A



● Na

PAGE 1-B



CM 2

CRN 822-06-0

CMF C₈ H₁₂ N₂ O₂

OCN-(CH₂)₆-NCO

RN 474022-24-7 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI) (CA INDEX NAME)]

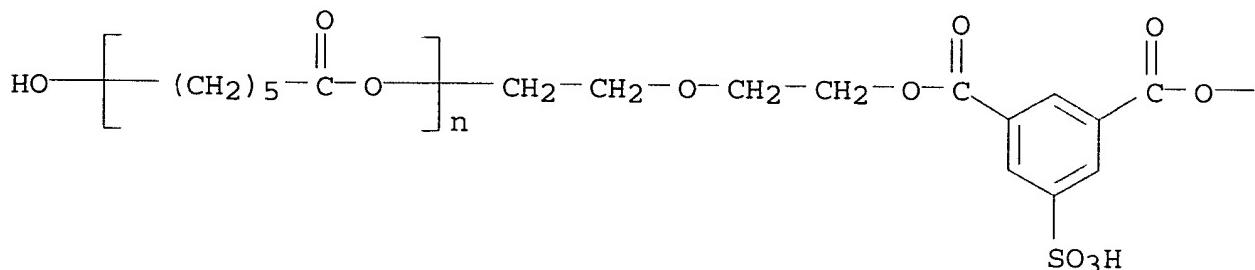
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

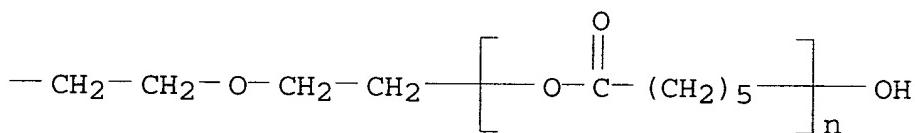
CCI PMS

PAGE 1-A



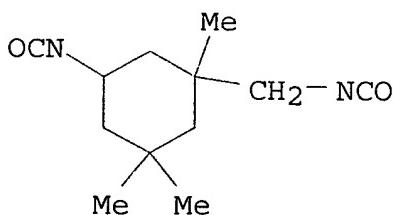
● Na

PAGE 1-B



CM 2

CRN 4098-71-9

CMF C₁₂ H₁₈ N₂ O₂

RN 474022-24-7 HCAPLUS

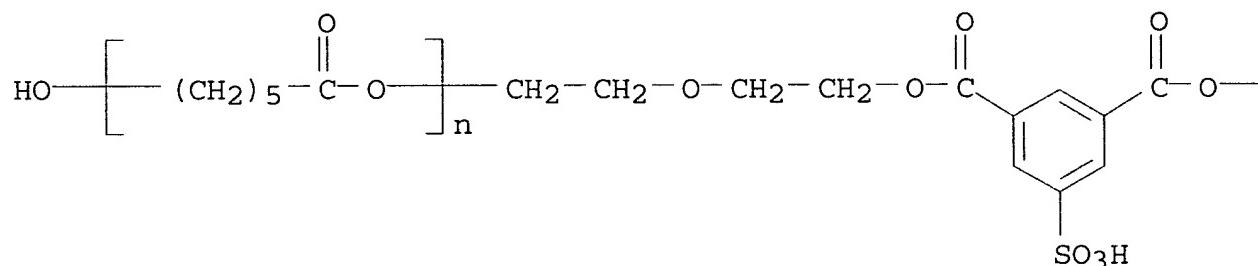
CN Poly[oxy(1-oxo-1,6-hexanediyil)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-

ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with
5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane (9CI)
(CA INDEX NAME)

CM 1

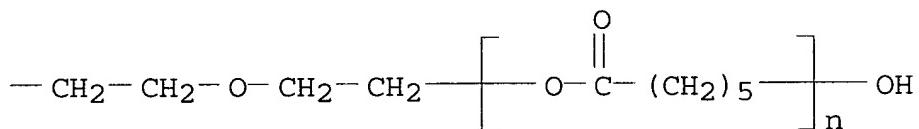
CRN 474022-17-8
CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na
CCI PMS

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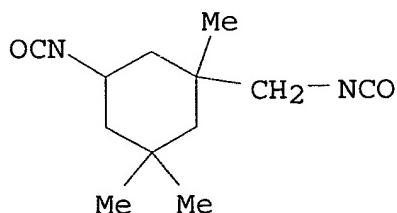
● Na

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CM 2

CRN 4098-71-9
CMF C₁₂ H₁₈ N₂ O₂



RN 474022-25-8 HCPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyl)oxy-2,1-ethanediyl]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] (9CI) (CA INDEX NAME)

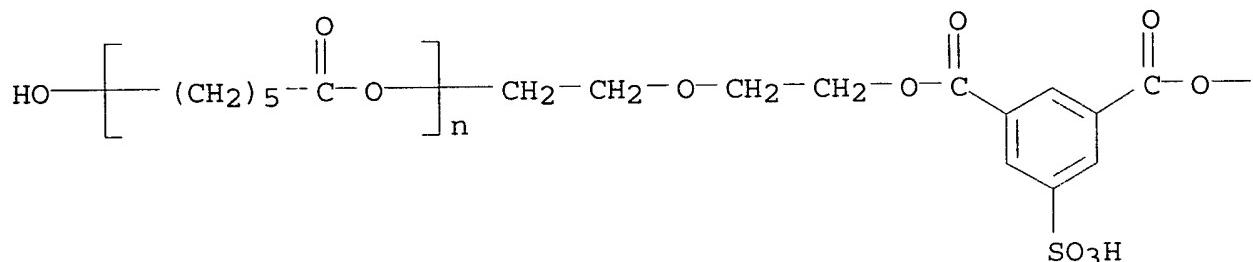
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

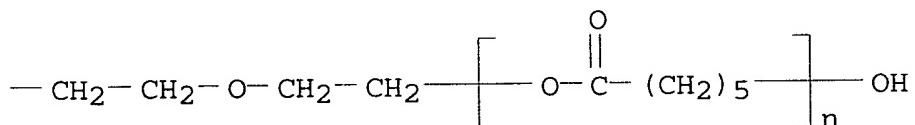
CCI PMS

PAGE 1-A



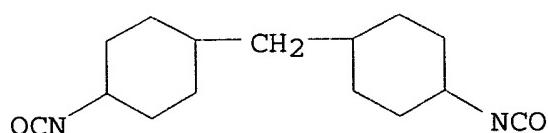
● Na

PAGE 1-B



CM 2

CRN 5124-30-1

CMF C₁₅ H₂₂ N₂ O₂

RN 474022-25-8 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyil)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] (9CI) (CA INDEX NAME)

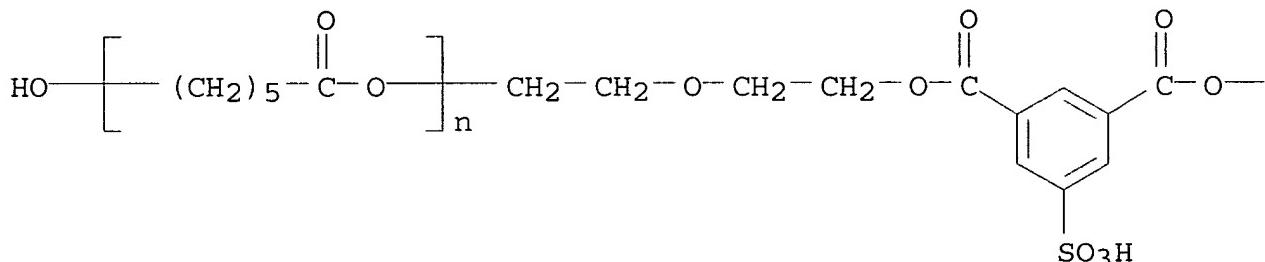
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

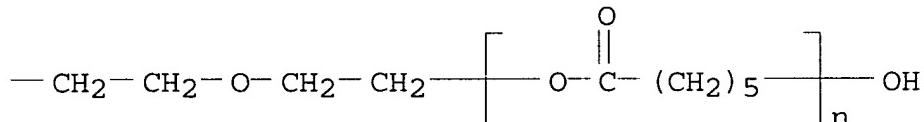
CCI PMS

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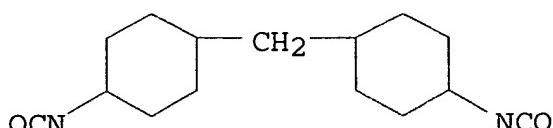
● Na

PAGE 1-B



CM 2

CRN 5124-30-1

CMF C₁₅ H₂₂ N₂ O₂

RN 474022-26-9 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

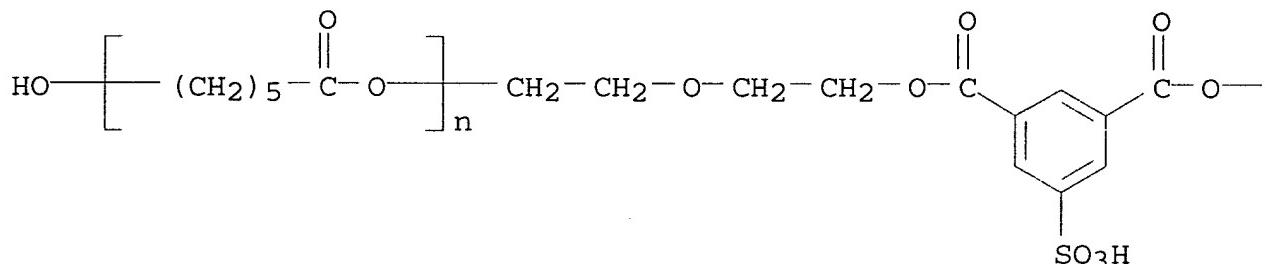
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

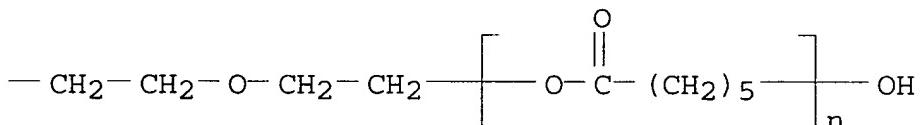
CCI PMS

PAGE 1-A



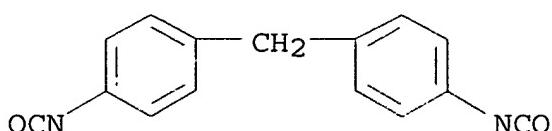
● Na

PAGE 1-B



CM 2

CRN 101-68-8

CMF C₁₅ H₁₀ N₂ O₂

RN 474022-26-9 HCPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

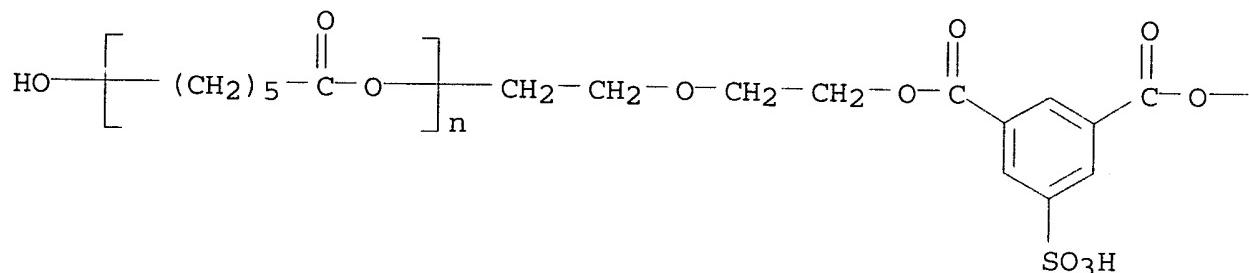
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

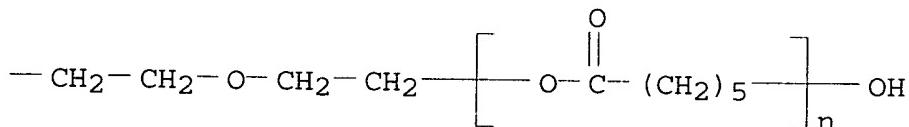
CCI PMS

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● Na

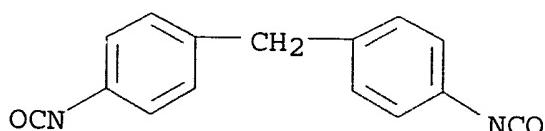
PAGE 1-B



CM 2

CRN 101-68-8

CMF C₁₅ H₁₀ N₂ O₂



RN 474022-27-0 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyil)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

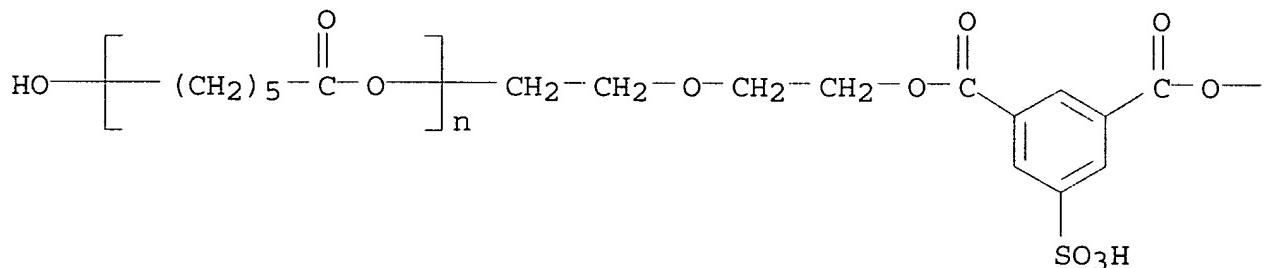
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

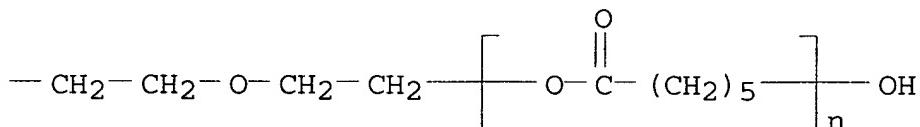
CCI PMS

PAGE 1-A



● Na

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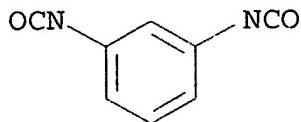


CM 2

CRN 26471-62-5

CMF C₉ H₆ N₂ O₂

CCI IDS



D1-Me

RN 474022-27-0 HCPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], .alpha.,.alpha.'-[(5-sulfo-1,3-phenylene)bis(carbonyloxy-2,1-ethanediyoxy-2,1-ethanediyl)]bis[.omega.-hydroxy-, monosodium salt, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

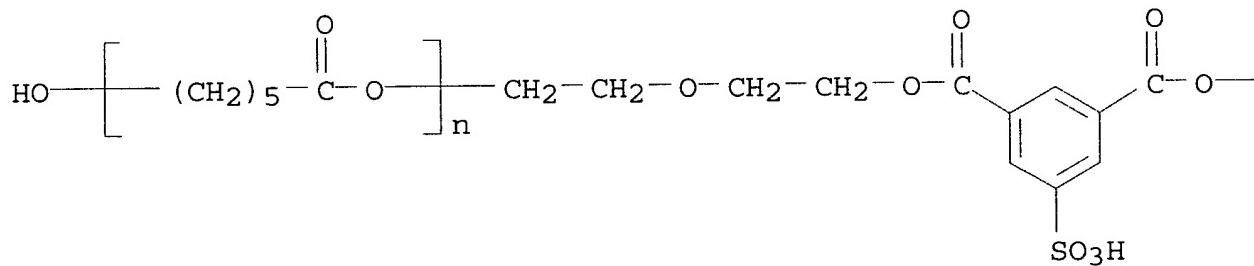
CM 1

CRN 474022-17-8

CMF (C₆ H₁₀ O₂)_n C₁₆ H₂₂ O₁₁ S . Na

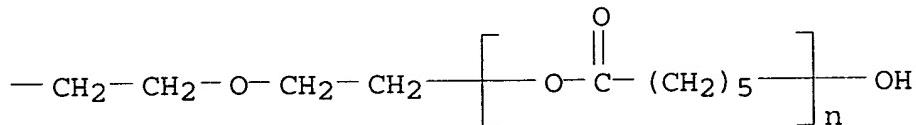
CCI PMS

PAGE 1-A



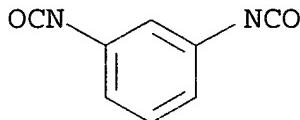
● Na

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CM 2

CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



D1-Me

CC 35-5 (Chemistry of Synthetic High Polymers)
 IT 919-30-2DP, reaction products with polyester-polyurethanes,
 hydrolyzed, polymers 474022-18-9DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-18-9P 474022-19-0DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-19-0P 474022-20-3DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-20-3P 474022-21-4DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-21-4P 474022-22-5DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-22-5P 474022-23-6DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-23-6P 474022-24-7DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-24-7P 474022-25-8DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-25-8P 474022-26-9DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-26-9P 474022-27-0DP, reaction products with
 aminopropyltriethoxysilanes, hydrolyzed, polymers
 474022-27-0P
 (synthesis and mech. and thermal properties of waterborne
 self-crosslinkable sulfo-urethane silanol dispersions)

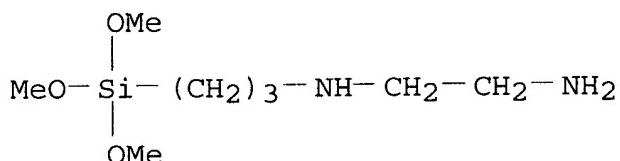
L73 ANSWER 3 OF 8 HCPLUS COPYRIGHT 2003 ACS on STN
 2001:718119 Document No. 135:274310 Alkoxysilane group-containing
 polyurethane compositions with excellent storage stability and
 adhesion. Yatsuka, Takeshi; Murata, Masaki; Nishida, Mitsuo (Alps
 Electric Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001270985 A2
 20011002, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 2000-84588 20000324.

AB The compns., useful for adhesives and coatings, contain 100 parts
 polyurethanes having alkoxysilane groups on side chains, 0-100 parts
 hydrolyzable metal alkoxides or their oligomers, and alc.-contg.

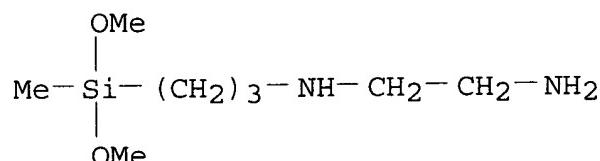
solvents. Thus, a 50:25:25 PhMe-Me ether ketone-EtOH mixt. contg. a prepolymer (prepd. from adipic acid-1,6-hexanediol-neopentyl glycol-5-sodiosulfoisophthalic acid copolymer 100, neopentyl glycol 3, and MDI 23 parts) and 3.2 parts KBM 602 [N-(.beta.-aminoethyl)-.gamma.-aminopropylmethyldimethoxysilane] was mixed with 3 parts Et Silicate 40 (tetra-Et silicate pentamer), applied to a polypropylene film, and heated at 120.degree. for 60 min to give a coating with elongation at break 120%, wt. loss 8% after immersion in a 1:1 Me Et ketone-PhMe mixt. at 50.degree. for 1 h, and good transparency.

IT 1760-24-3DP, KBM 603, reaction product with NCO-terminated polyurethanes 3069-29-2DP, KBM 602, reaction product with NCO-terminated polyurethanes 158829-46-0DP, reaction product with KBM 602 and Et Silicate 40 189388-04-3DP, Adipic acid-2,2-dimethylolbutanoic acid-4,4'-diphenylmethane diisocyanate-1,6-hexanediol-neopentyl glycol-5-sodiosulfoisophthalic acid copolymer, reaction products with glycidoxypropylmethyldiethoxy silane 362683-61-2DP, reaction product with KBM 602 (storage-stable coating compns. contg. alkoxysilyl -contg. polyurethanes and metal alkoxides)

RN 1760-24-3 HCPLUS
CN 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]- (9CI) (CA INDEX NAME)



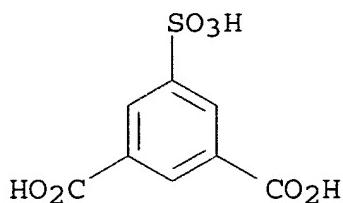
RN 3069-29-2 HCPLUS
CN 1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (9CI) (CA INDEX NAME)



RN 158829-46-0 HCPLUS
CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, monosodium salt, polymer with 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 1,6-hexanediol and 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

CM 1

CRN 6362-79-4
CMF C8 H6 O7 S . Na



● Na

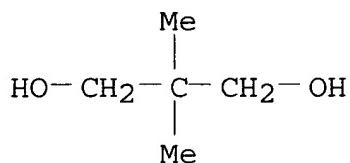
CM 2

CRN 629-11-8
 CMF C₆ H₁₄ O₂



CM 3

CRN 126-30-7
 CMF C₅ H₁₂ O₂



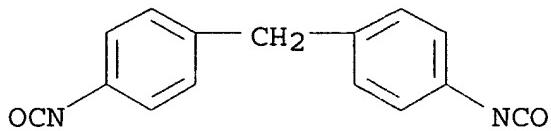
CM 4

CRN 124-04-9
 CMF C₆ H₁₀ O₄



CM 5

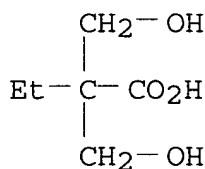
CRN 101-68-8
 CMF C15 H10 N2 O2



RN 189388-04-3 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, monosodium salt, polymer with 2,2-bis(hydroxymethyl)butanoic acid, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 1,6-hexanediol and 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

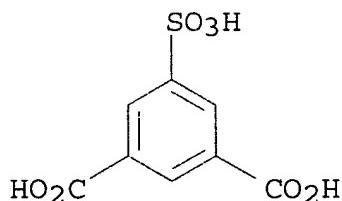
CM 1

CRN 10097-02-6
 CMF C6 H12 O4



CM 2

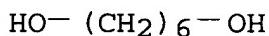
CRN 6362-79-4
 CMF C8 H6 O7 S . Na



● Na

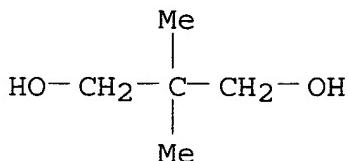
CM 3

CRN 629-11-8
 CMF C6 H14 O2



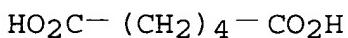
CM 4

CRN 126-30-7
 CMF C5 H12 O2



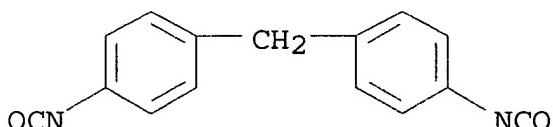
CM 5

CRN 124-04-9
 CMF C6 H10 O4



CM 6

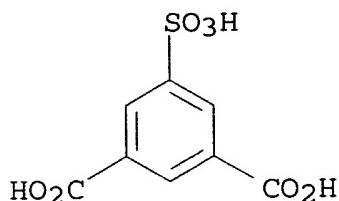
CRN 101-68-8
 CMF C15 H10 N2 O2



RN 362683-61-2 HCPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-sulfo-, monosodium salt, polymer with 1,3-benzenedicarboxylic acid, 1,4-cyclohexanediethanol, 2,2-dimethyl-1,3-propanediol and 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

CM 1

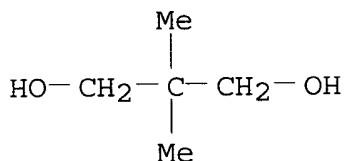
CRN 6362-79-4
 CMF C8 H6 O7 S . Na



● Na

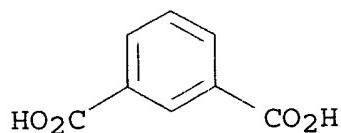
CM 2

CRN 126-30-7
 CMF C5 H12 O2



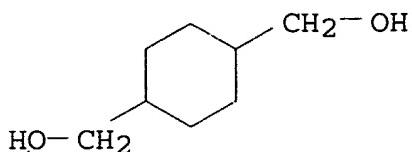
CM 3

CRN 121-91-5
 CMF C8 H6 O4

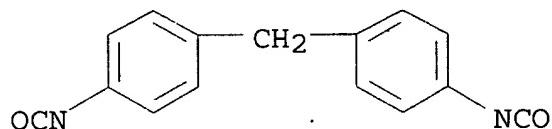


CM 4

CRN 105-08-8
 CMF C8 H16 O2



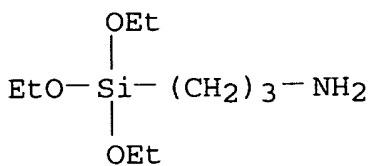
CM 5

CRN 101-68-8
CMF C15 H10 N2 O2

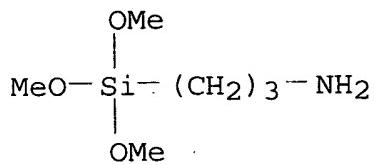
- IC ICM C08L075-04
ICS C08K005-05; C08K005-541; C08L083-04
CC 42-10 (Coatings, Inks, and Related Products)
IT Polyurethanes, uses
(polycarbonate-, **alkoxysilyl**-contg.; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT Polyurethanes, uses
(polyester-, **alkoxysilyl**-contg.; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT Polycarbonates, uses
(polyurethane-, **alkoxysilyl**-contg.; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT Coating materials
(solvent-resistant; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT Alcohols, uses
(solvent; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT Coating materials
(storage-stable; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT 64-17-5, Ethanol, uses
(solvent; storage-stable coating compns. contg. **alkoxysilyl**-contg. polyurethanes and metal alkoxides)
IT 78-10-4DP, Tetraethoxysilane, reaction products with **ethoxysilyl**-contg. polycarbonate-polyurethane
1760-24-3DP, KBM 603, reaction product with NCO-terminated polyurethanes
2897-60-1DP, KBM 402, reaction products with

polyester-polyurethanes 3069-29-2DP, KBM 602, reaction product with NCO-terminated polyurethanes 11099-06-2DP, Ethyl Silicate 40, reaction products with ethoxysilyl-contg. polycarbonate-polyurethane 17927-72-9DP, TAA, reaction products with ethoxysilyl-contg. polyester-polyurethane 24801-88-5DP, A 1310, reaction products with polycarbonate-polyurethane 158829-46-0DP, reaction product with KBM 602 and Et Silicate 40 158829-46-0DP, reaction product with KBM 603 189388-04-3DP, Adipic acid-2,2-dimethylbutanoic acid-4,4'-diphenylmethane diisocyanate-1,6-hexanediol-neopentyl glycol-5-sodiosulfoisophthalic acid copolymer, reaction products with glycidoxypropylmethyldiethoxysilane 362683-61-2DP, reaction product with KBM 602 362683-62-3DP, reaction products with isocyanatopropyltriethoxysilane (storage-stable coating compns. contg. alkoxysilyl -contg. polyurethanes and metal alkoxides)

- L73 ANSWER 4 OF 8 HCPLUS COPYRIGHT 2003 ACS on STN
 2000:706399 Document No. 133:282528 Dispersions of alkoxysilane-terminated polyurethanes for sizing agents for glass fibers in plastics. Blum, Harald; Naujoks, Karin (Bayer A.-G., Germany). Ger. Offen. DE 19914884 A1 20001005, 14 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1999-19914884 19990401.
- AB Dispersions of polyurethanes having high mol. wt. linear chains and alkoxysilane end groups exhibit improved processability as sizing agents for glass fibers and provide glass-fiber-reinforced plastics with good mech. properties. A typical dispersion was manufd. by homogenizing difunctional adipic acid-1,4-butanediol (I) copolymer (mol. wt. 900) 1237, LB 25 (monofunctional ethylene oxide-propylene oxide copolymer monoether, mol. wt. 2245) 278, I 27.2, and Na sulfonate diol 116.4 g at 75.degree., reacting this mixt. with 849 g IPDI at 100.degree. until a theor. NCO value is attained, dispersing the resulting NCO-functional prepolymer in 3300 g water, adding 25% aq. soln. contg. hydrazine 8, diethylenetriamine 12.9, and ethylenediamine 43.8 g, reacting 10 min, adding 60.8 g 3-aminopropyltriethoxy silane in 440 g water in 15 min, and stirring at 50.degree. until NCO group content is not observable.
- IT 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with block polyester-polyurea-polyurethanes 13822-56-5DP, 3-Aminopropyltrimethoxysilane, reaction products with block polycarbonate-polyoxyalkylene-polyurea-polyurethanes 299174-55-3DP, reaction products with aminopropyltrimethoxysilane 299174-56-4DP, reaction products with aminopropyltriethoxysilane 299174-57-5DP, reaction products with aminopropyltrimethoxysilane (dispersions of alkoxysilane-terminated polyurethanes for sizing agents for glass fibers in plastics)
- RN 919-30-2 HCPLUS
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



RN 13822-56-5 HCAPLUS
 CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



RN 299174-55-3 HCAPLUS
 CN Ethanesulfonic acid, 2-[(2-aminoethyl)amino]-, monosodium salt,
 polymer with N-(2-aminoethyl)-1,2-ethanediamine, Desmophen C 200,
 1,6-diisocyanatohexane, hydrazine and 5-isocyanato-1-
 (isocyanatomethyl)-1,3,3-trimethylcyclohexane, block (9CI) (CA
 INDEX NAME)

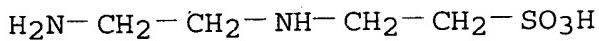
CM 1

CRN 171903-15-4
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 34730-59-1
 CMF C4 H12 N2 O3 S . Na

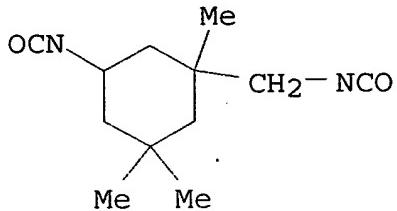


● Na

CM 3

CRN 4098-71-9

CMF C12 H18 N2 O2



CM 4

CRN 822-06-0
CMF C8 H12 N2 O2 $\text{OCN}-(\text{CH}_2)_6-\text{NCO}$

CM 5

CRN 302-01-2
CMF H4 N2 $\text{H}_2\text{N}-\text{NH}_2$

CM 6

CRN 111-40-0
CMF C4 H13 N3 $\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}-\text{CH}_2-\text{CH}_2-\text{NH}_2$

RN 299174-56-4 HCAPLUS

CN Ethanesulfonic acid, 2-[(2-aminoethyl)amino]-, monosodium salt, polymer with N-(2-aminoethyl)-1,2ethanediamine, 1,4-butanediol, alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, block (9CI) (CA INDEX NAME)

CM 1

CRN 34730-59-1

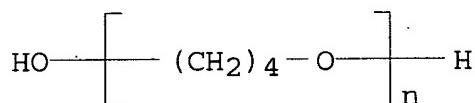
CMF C4 H12 N2 O3 S . Na



● Na

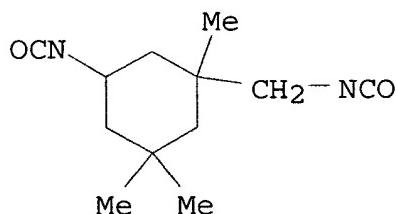
CM 2

CRN 25190-06-1
 CMF (C4 H8 O)n H2 O
 CCI PMS



CM 3

CRN 4098-71-9
 CMF C12 H18 N2 O2



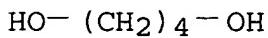
CM 4

CRN 111-40-0
 CMF C4 H13 N3



CM 5

CRN 110-63-4
CMF C4 H10 O2



RN 299174-57-5 HCAPLUS
CN Hexanedioic acid, polymer with 2-[(2-aminoethyl)amino]ethanesulfonic acid monosodium salt, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol, 1,6-hexanediol and hydrazine, block (9CI) (CA INDEX NAME)

CM 1

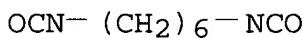
CRN 34730-59-1
CMF C4 H12 N2 O3 S . Na



● Na

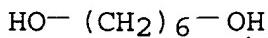
CM 2

CRN 822-06-0
CMF C8 H12 N2 O2



CM 3

CRN 629-11-8
CMF C6 H14 O2



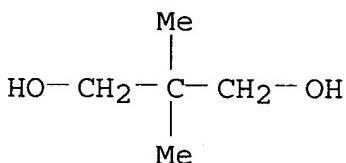
CM 4

CRN 302-01-2

CMF H4 N2

 $\text{H}_2\text{N}-\text{NH}_2$

CM 5

CRN 126-30-7
CMF C5 H12 O2

CM 6

CRN 124-04-9
CMF C6 H10 O4 $\text{HO}_2\text{C}- (\text{CH}_2)_4 - \text{CO}_2\text{H}$

IC ICM C08G018-61
 ICS D06M015-564; C09D175-04; D01H013-30
 CC 37-6 (Plastics Manufacture and Processing)
 IT 75-21-8DP, Ethylene oxide, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated 75-56-9DP, Propylene oxide, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated 79-10-7DP, Acrylic acid, amides with isophoronediamine, polymers with block polycarbonate-polyurea-polyurethane-forming monomers 107-15-3DP, Ethylenediamine, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated 110-63-4DP, 1,4-Butanediol, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated, preparation 111-40-0DP, Diethylenetriamine, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated 124-04-9DP, Adipic acid, polymers with block polyester-polyurea-polyurethanes, alkoxy silane-terminated 302-01-2DP, Hydrazine, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated, preparation 919-30-2DP, 3-Aminopropyltriethoxysilane, reaction products with block polyester-polyurea-polyurethanes 2855-13-2DP, Isophoronediamine, polymers with sulfonate-contg. block polyester-polyoxyalkylene-

polyurea-polyurethane-forming monomers, alkoxy silane-terminated 4098-71-9DP, IPDI, polymers with block polyester-polyurea-polyurethane-forming monomers, alkoxy silane-terminated 13822-56-5DP, 3-Aminopropyltrimethoxysilane, reaction products with block polycarbonate-polyoxyalkylene-polyurea-polyurethanes 130254-60-3P 159173-70-3DP, reaction products with block polycarbonate-polyoxyalkylene-polyurea-polyurethanes 299174-55-3DP, reaction products with aminopropyltrimethoxysilane 299174-56-4DP, reaction products with aminopropyltriethoxysilane 299174-57-5DP, reaction products with aminopropyltrimethoxysilane 299174-58-6DP, reaction products with aminopropyltrimethoxysilane 299174-59-7DP, reaction products with 1:1 aminopropyltrimethoxysilane-dimethyl maleate adduct
 (dispersions of alkoxy silane-terminated polyurethanes for sizing agents for glass fibers in plastics).

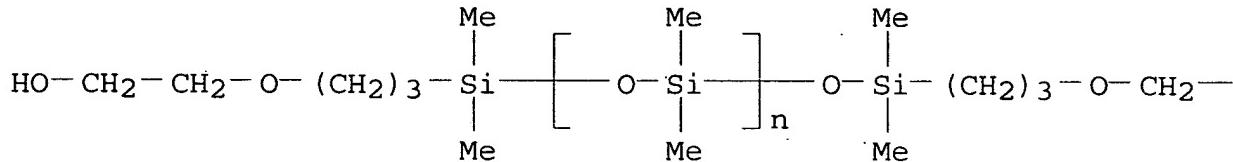
- L73 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
 2000:448299 Document No. 133:75017 Electrically conductive polysiloxane-polyurethane or polysiloxane-polyurea compositions and electric conductor parts. Yoshikawa, Hitoshi; Suzuki, Satoshi; Arimura, Shoji (Tokai Rubber Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2000186129 A2 20000704, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-365657 19981222.
- AB The compns. contain OH- or amino-terminated linear siloxanes, diisocyanates, chain extenders, and chain extenders involving ionic functional groups. The compns. are used as the elec. conductor parts, esp., electrophotog. rollers. Thus, a compn. comprising .gamma.-hydroxyethoxypropyl dimethylsilyl- terminated dimethylsilicone oil 100, MDI (Comonate PH) 37.5, 1,4-butanediol 1.9, Na 1,4-butanediol-2-sulfonate 4.3, and dibutyltin dilaurate 0.001 part was applied on the surface of a roller comprising a stainless steel (SUS 304) core, a silicone rubber base layer contg. carbon black, and a hydronenated nitrile rubber surface layer to give an electrophotog. developer roller showing initial toner chargeability 10.6 .mu.c/cm², initial residual charge 2 V, and residual charge after 10,000 printings 4 V.
- IT 279218-60-9P 279218-61-0P 279218-62-1P
 279218-63-2P
 (elec. conductive polysiloxane-polyuethane or polyurea compns. for electrophotog. developer rollers)
- RN 279218-60-9 HCAPLUS
- CN 2-Butanesulfonic acid, 1,4-dihydroxy-, monosodium salt, polymer with 1,4-butanediol, .alpha.-[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]-.omega.-[[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and 1,1'-methylenebis[4-isocyanatobenzene], block (9CI) (CA INDEX NAME)

CM 1

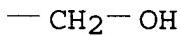
CRN 156327-07-0
 CMF (C₂ H₆ O Si)_n C₁₄ H₃₄ O₅ Si₂

CCI PMS

PAGE 1-A

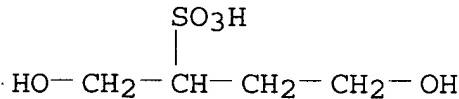


PAGE 1-B



CM 2

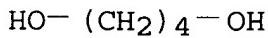
CRN 35430-88-7
 CMF C4 H10 O5 S . Na



● Na

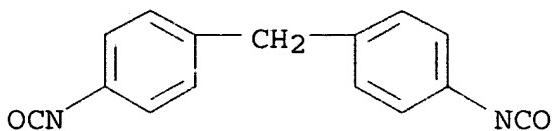
CM 3

CRN 110-63-4
 CMF C4 H10 O2



CM 4

CRN 101-68-8
 CMF C15 H10 N2 O2



RN 279218-61-0 HCPLUS

CN 2-Butanesulfonic acid, 1,4-dihydroxy-, monosodium salt, polymer with 1,4-butanediol, Coronate 2507, .alpha.:-[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]-.omega.-[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and 1,1'-methylenebis[4-isocyanatobenzene] (9CI) (CA INDEX NAME)

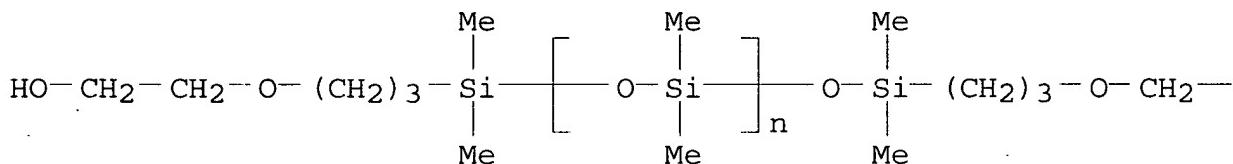
CM 1

CRN 156327-07-0

CMF (C₂ H₆ O Si)_n C₁₄ H₃₄ O₅ Si₂

CCI PMS

PAGE 1-A



PAGE 1-B

— CH₂ — OH

CM 2

CRN 109190-12-7

CMF Unspecified

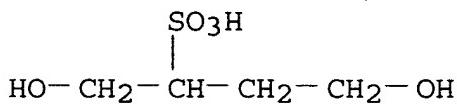
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 35430-88-7

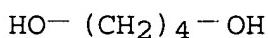
CMF C₄ H₁₀ O₅ S . Na



● Na

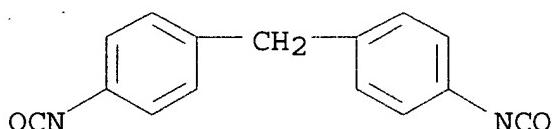
CM 4

CRN 110-63-4
CMF C4 H10 O2



CM 5

CRN 101-68-8
CMF C15 H10 N2 O2



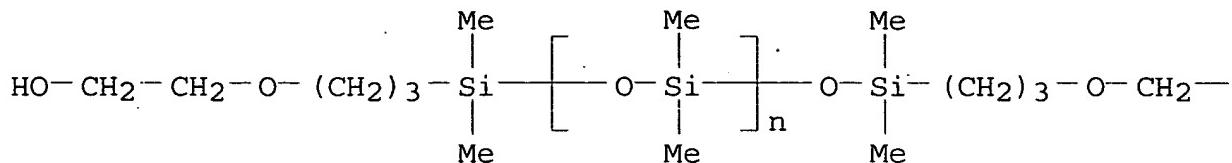
RN 279218-62-1 HCAPLUS

CN 2-Butanesulfonic acid, 1,4-dihydroxy-, monosodium salt, polymer with 1,4-butanediol, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl), .alpha.-[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]-.omega.-[[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and 1,1'-methylenebis[4-isocyanatobenzene], block (9CI) (CA INDEX NAME)

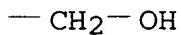
CM 1

CRN 156327-07-0
CMF (C₂ H₆ O Si)_n C₁₄ H₃₄ O₅ Si₂
CCI PMS

PAGE 1-A

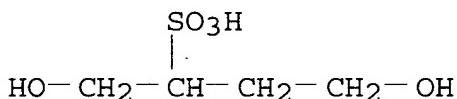


PAGE 1-B



CM 2

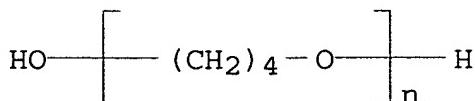
CRN 35430-88-7
 CMF C4 H10 O5 S . Na



● Na

CM 3

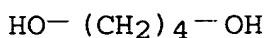
CRN 25190-06-1
 CMF (C4 H8 O)n H2 O
 CCI PMS



CM 4

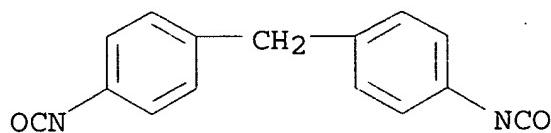
CRN 110-63-4

CMF C4 H10 O2



CM 5

CRN 101-68-8
 CMF C15 H10 N2 O2

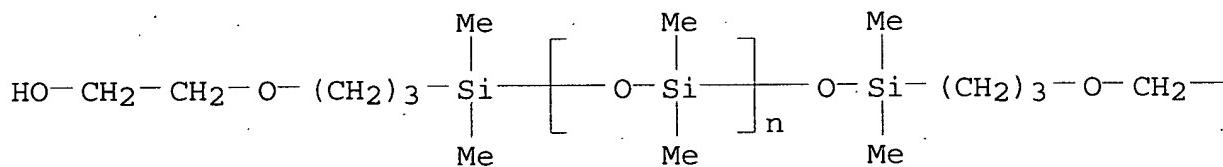


RN 279218-63-2 HCPLUS
 CN 1,3-Benzenedisulfonic acid, 4,5-dihydroxy-, disodium salt, polymer with 1,4-butanediol, .alpha.-[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]-.omega.-[[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] and 1,1'-methylenebis[4-isocyanatobenzene], block (9CI) (CA INDEX NAME)

CM 1

CRN 156327-07-0
 CMF (C2 H6 O Si)n C14 H34 O5 Si2
 CCI PMS

PAGE 1-A

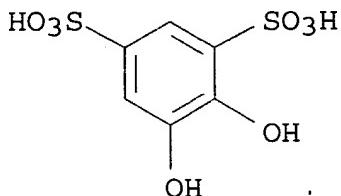


PAGE 1-B

— CH₂ — OH

CM 2

CRN 149-45-1
 CMF C6 H6 O8 S2 . 2 Na



● 2 Na

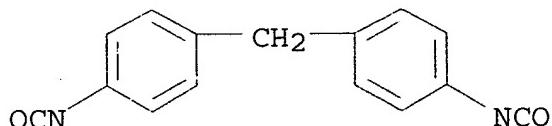
CM 3

CRN 110-63-4
 CMF C4 H10 O2

HO—(CH₂)₄—OH

CM 4

CRN 101-68-8
 CMF C₁₅ H₁₀ N₂ O₂



IC ICM C08G018-61
 ICS F16C013-00; G03G015-02; G03G015-08; G03G015-16
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 74, 76
 IT 279218-60-9P 279218-61-0P 279218-62-1P
 279218-63-2P 279218-64-3P, uses 279218-65-4P
 279218-66-5P 279218-67-6P 279218-68-7P 279218-69-8P
 279218-70-1P 279218-71-2P, uses
 (elec. conductive polysiloxane-polyurethane or polyurea compns.
 for electrophotog. developer rollers)

L73 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
 1998:8733 Document No. 128:116382 Ambient temperature-curable compositions containing polyurethanes and silicones and polymerizable silicone-type surfactants thereof. Oda, Hiroshi; Tanabe, Hisaki; Harakawa, Takeshi; Tachibana, Yoshiki (Nippon Paint Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09328606 A2 19971222 Heisei, 36 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-168239 19960607.

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The compns. contain (A) polyurethane dispersions obtained by reacting hydrophilic urethane prepolymers and chain extenders in water, (B) carbonyl-contg. silicone-modified resin emulsions obtained by copolymg. oxo compds. with polymerizable double bonds, .alpha.,.beta.-unsatd. ethylenic monomers, and silicones with polymerizable double bonds which may be reactive emulsifiers, and optionally (C) low mol. wt. crosslinking agents. The surfactants have the structure AaR53-aSiO(R52SiO)b(R5ASiO)c(R5QSiO)dSiR53-aAa [A = C₃H₆OCH₂CR₇(R₈OR₆)₂; Q = 3-(meth)acryloxypropyl; R₅ = C₁-6 alkyl, Ph; a = 0, 1, 1.ltoreq. b .ltoreq.20, 0.ltoreq. c .ltoreq.10, 1.ltoreq. d .ltoreq.10, 1.ltoreq. a + c .ltoreq.10; R₆ = monovalent groups with CO₂H, phosphoric acid, and/or SO₃H; R₈ = C₁-6 alkylene; 5.ltoreq. n .ltoreq.40]. The compns. give coatings showing excellent resistance to weather, fouling, water, and solvents. Thus, a 30%-solid polyurethane dispersion was obtained by reacting 21:45 N,N-bis(2-hydroxyethyl)taurin-IPDI copolymer, Placcel CD 208PL (polycarbonate diol), Placcel CD 210PL (polycarbonate diol), and IPDI, neutralizing with Et₃N, and emulsifying with hydrazine monohydrate. An amine salt-modified organopolysiloxane I was obtained by reacting hexahydrophthalic anhydride and II and further treating with 2-dimethylaminoethanol. Bu methacrylate-diacetoneacrylamide-I copolymer (III) emulsion was prep'd. An ambient temp.-curable compn. comprised 400 parts the polyurethane dispersion and 343 parts III emulsion and its coating showed good water resistance.

IT 201419-37-6P
 (2; ambient-curable compns. contg. polyurethanes and carbonyl-contg. silicone-modified resin emulsions for coatings)

RN 201419-37-6 HCAPLUS

CN Ethanesulfonic acid, 2-[bis(2-hydroxyethyl)amino]-, polymer with carbonic acid, 1,2-ethanediamine, 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 3-methyl-1,5-pentanediol and Placcel CD 208PL (9CI) (CA INDEX NAME)

CM 1

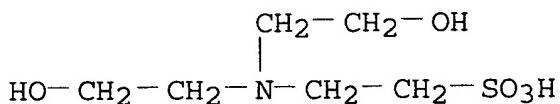
CRN 190337-01-0

CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

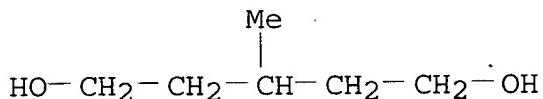
CM 2

CRN 10191-18-1
 CMF C6 H15 N O5 S



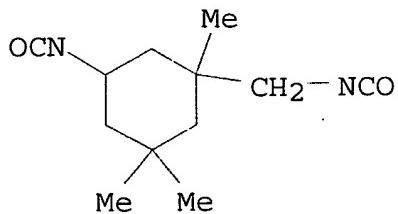
CM 3

CRN 4457-71-0
 CMF C6 H14 O2



CM 4

CRN 4098-71-9
 CMF C12 H18 N2 O2



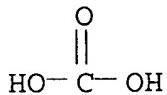
CM 5

CRN 629-11-8
 CMF C6 H14 O2

$\text{HO}-(\text{CH}_2)_6-\text{OH}$

CM 6

CRN 463-79-6
CMF C H₂ O₃



CM 7

CRN 107-15-3
CMF C₂ H₈ N₂

$\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{NH}_2$

IT 190443-77-7P 201419-36-5P

(ambient-curable compns. contg. polyurethanes and carbonyl-contg.
silicone-modified resin emulsions for coatings)

RN 190443-77-7 HCAPLUS

CN Ethanesulfonic acid, 2-[bis(2-hydroxyethyl)amino]-, polymer with
carbonic acid, 1,6-hexanediol, hydrazine, 5-isocyanato-1-
(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 3-methyl-1,5-
pentanediol and Placcel CD 208PL (9CI) (CA INDEX NAME)

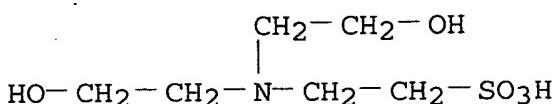
CM 1

CRN 190337-01-0
CMF Unspecified
CCI PMS, MAN

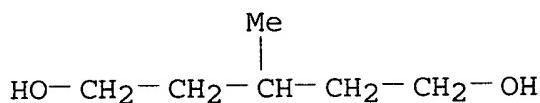
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

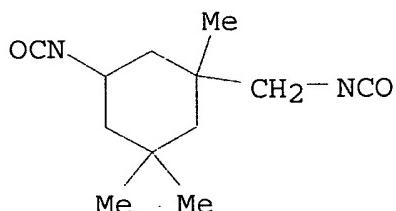
CRN 10191-18-1
CMF C₆ H₁₅ N O₅ S



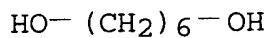
CM 3

CRN 4457-71-0
CMF C6 H14 O2

CM 4

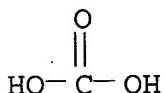
CRN 4098-71-9
CMF C12 H18 N2 O2

CM 5

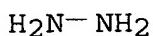
CRN 629-11-8
CMF C6 H14 O2

CM 6

CRN 463-79-6
CMF C H2 O3

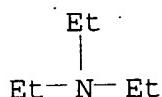


CM 7

CRN 302-01-2
CMF H4 N2

RN 201419-36-5 HCAPLUS
 CN Ethanesulfonic acid, 2-[bis(2-hydroxyethyl)amino]-, polymer with
 carbonic acid, 1,6-hexanediol, hydrazine, 5-isocyanato-1-
 (isocyanatomethyl)-1,3,3-trimethylcyclohexane, 3-methyl-1,5-
 pentanediol and Placcel CD 208PL, compd. with N,N-diethylethanamine
 (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8
CMF C6 H15 N

CM 2

CRN 190443-77-7
 CMF (C₁₂ H₁₈ N₂ O₂ . C₆ H₁₅ N O₅ S . C₆ H₁₄ O₂ . C₆ H₁₄ O₂ . C H₂
 O₃ . H₄ N₂ . Unspecified)x
 CCI PMS

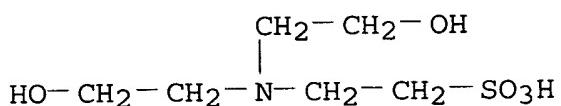
CM 3

CRN 190337-01-0
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

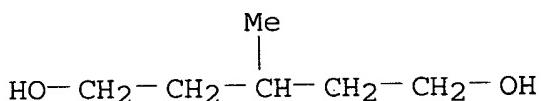
CM 4

CRN 10191-18-1
 CMF C6 H15 N O5 S



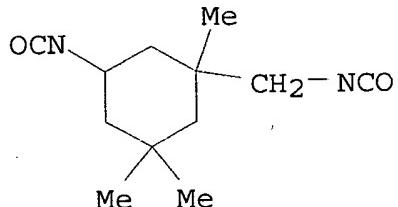
CM 5

CRN 4457-71-0
 CMF C6 H14 O2



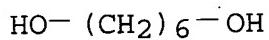
CM 6

CRN 4098-71-9
 CMF C12 H18 N2 O2



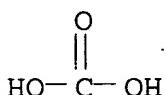
CM 7

CRN 629-11-8
 CMF C6 H14 O2



CM 8

CRN 463-79-6
 CMF C H2 O3



CM 9

CRN 302-01-2

CMF H4 N2

 $\text{H}_2\text{N}-\text{NH}_2$

IT 201419-43-4P 201614-70-2P

(ambient-curable compns. contg. polyurethanes and carbonyl-contg. silicone-modified resin emulsions for coatings)

RN 201419-43-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
 2-[bis(2-hydroxyethyl)amino]ethanesulfonic acid, carbonic acid,
 .alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 .omega.-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)],
 N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, 1,2-ethanediamine,
 1,6-hexanediol, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-
 trimethylcyclohexane, 3-methyl-1,5-pentanediol and Placcel CD 208PL
 (9CI) (CA INDEX NAME)

CM 1

CRN 190337-01-0

CMF Unspecified

CCI PMS, MAN

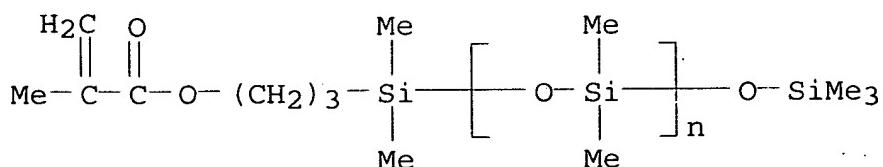
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CM 2

CRN 123109-42-2

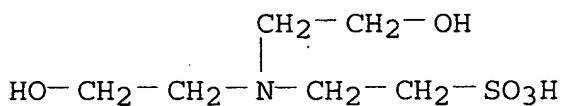
CMF (C₂ H₆ O Si)_n C₁₂ H₂₆ O₃ Si₂

CCI PMS



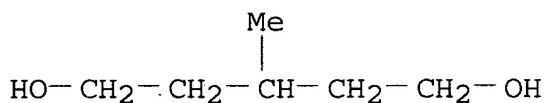
CM 3

CRN 10191-18-1
 CMF C6 H15 N O5 S



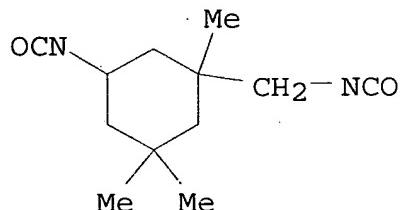
CM 4

CRN 4457-71-0
 CMF C6 H14 O2



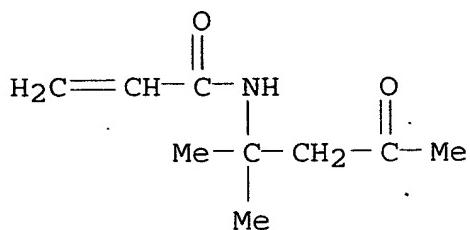
CM 5

CRN 4098-71-9
 CMF C12 H18 N2 O2

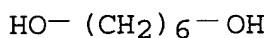


CM 6

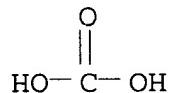
CRN 2873-97-4
 CMF C9 H15 N O2



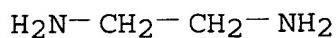
CM 7

CRN 629-11-8
CMF C6 H14 O2

CM 8

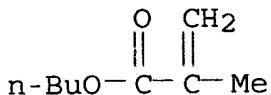
CRN 463-79-6
CMF C H2 O3

CM 9

CRN 107-15-3
CMF C2 H8 N2

CM 10

CRN 97-88-1
CMF C8 H14 O2



RN 201614-70-2 HCPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
 2-[bis(2-hydroxyethyl)amino]ethanesulfonic acid, carbonic acid,
 .alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 .omega.-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)],
 N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, 1,6-hexanediol,
 hydrazine, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-
 trimethylcyclohexane, methyl 2-methyl-2-propenoate, methyloxirane
 polymer with oxirane bis(2-aminopropyl) ether; 3-methyl-1,5-
 pentanediol and Placcel CD 208PL (9CI) (CA INDEX NAME)

CM 1

CRN 190337-01-0

CMF Unspecified

CCI PMS, MAN

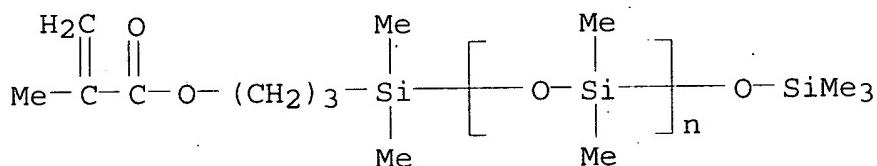
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 123109-42-2

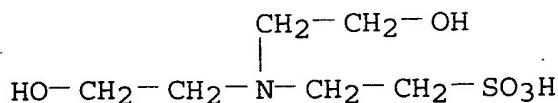
CMF (C₂ H₆ O Si)_n C₁₂ H₂₆ O₃ Si₂

CCI PMS

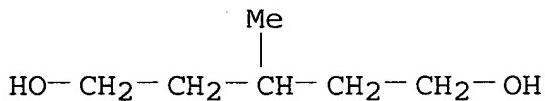


CM 3

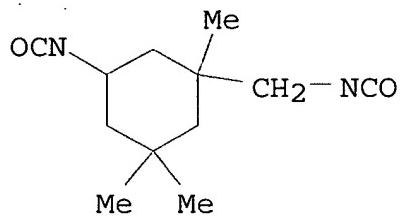
CRN 10191-18-1

CMF C₆ H₁₅ N O₅ S

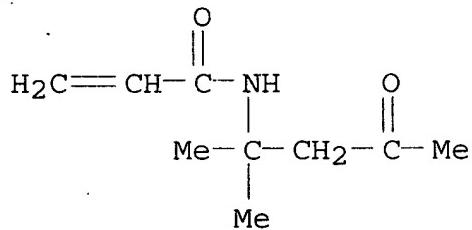
CM 4

CRN 4457-71-0
CMF C6 H14 O2

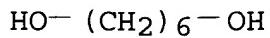
CM 5

CRN 4098-71-9
CMF C12 H18 N2 O2

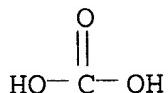
CM 6

CRN 2873-97-4
CMF C9 H15 N O2

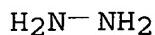
CM 7

CRN 629-11-8
CMF C6 H14 O2

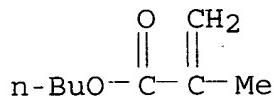
CM 8

CRN 463-79-6
CMF C H₂ O₃

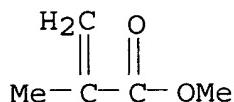
CM 9

CRN 302-01-2
CMF H₄ N₂

CM 10

CRN 97-88-1
CMF C₈ H₁₄ O₂

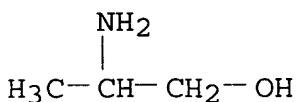
CM 11

CRN 80-62-6
CMF C₅ H₈ O₂

CM 12

CRN 65605-36-9
CMF C₃ H₉ N O . 1/2 (C₃ H₆ O . C₂ H₄ O)x

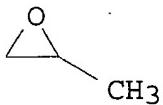
CM 13

CRN 6168-72-5
CMF C3 H9 N O

CM 14

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 15

CRN 75-56-9
CMF C3 H6 O

CM 16

CRN 75-21-8
CMF C2 H4 OIC ICM C08L075-04
ICS B01F017-54; C08G018-40; C08G077-20; C08G077-22; C08L055-00;
C09D175-04; C11D001-82; C08F299-08CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 37, 46

IT 201419-37-6P

(2; ambient-curable compns. contg. polyurethanes and
carbonyl-contg. silicone-modified resin emulsions for coatings)IT 80-62-6DP, graft copolymer with aminocarbonyl-contg. acrylic
silicone 97-88-1DP, graft copolymer with aminocarbonyl-terminated

acrylic silicone 2873-97-4DP, Diacetoneacrylamide, graft copolymer with aminocarbonyl-terminated acrylic silicone 21282-97-3DP, graft copolymer with aminocarbonyl-contg. acrylic silicone 190064-77-8P
190443-77-7P 201419-36-5P 201419-39-8P
201419-40-1P 201419-41-2P 201419-42-3P
 (ambient-curable compns. contg. polyurethanes and carbonyl-contg. silicone-modified resin emulsions for coatings)

- IT **201419-43-4P 201614-70-2P**
 (ambient-curable compns. contg. polyurethanes and carbonyl-contg. silicone-modified resin emulsions for coatings)
- IT 108-01-0DP, reaction products with carboxy-terminated acrylic siloxane 201419-38-7DP, **trimethylsilyl-terminated**, reaction products with hexahydrophthalic anhydride and 2-dimethylaminoethanol
 (reactive emulsifier, for resin emulsions; ambient-curable compns. contg. polyurethanes and carbonyl-contg. silicone-modified resin emulsions for coatings)

L73 ANSWER 7 OF 8 HCPLUS COPYRIGHT 2003 ACS on STN
 1997:739884 Document No. 128:49506 Antisoiling coating films with good adhesion and compositions therefor. Yoshizawa, Shin; Abo, Toshio; Nagata, Junichiro; Nishimura, Yoshiro; Ishimoda, Yoshikazu (Nippon Paint Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09296151 A2 19971118 Heisei, 15 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-130959 19960426.

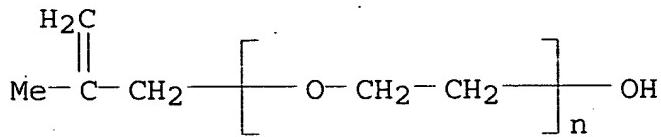
AB Title films comprise F-contg. polyurethane-based continuous parts and Si-contg. irregular spots and are prep'd. from compns. comprising OH-contg. fluorovinyl polymers, polyalkylene oxide-contg. polyisocyanates, and hydrolyzable **silyl** group-contg. silanols. A compn. contg. Blemmer PE 350-chlorotrifluoroethylene-Et vinyl ether-4-hydroxybutyl vinyl ether-Na p-styrenesulfonate-vinyl cyclohexanoate copolymer and Coronate EH-MPG 081 reaction product, and Me silicate 51 showed good adhesion to steel panels and soil resistance over 6 mo.

IT **199733-16-9DP**, Me ether **199944-09-7DP**, Me ether
199944-10-0DP, Me ether
 (silicate spot-contg. fluoropolymer-polyurethane coatings with good adhesion and soil resistance)

RN 199733-16-9 HCPLUS
 CN Cyclohexanecarboxylic acid, ethenyl ester, polymer with chlorotrifluoroethene, 4-(ethenyloxy)-1-butanol, ethoxyethene, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), .alpha.- (2-methyl-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), sodium 4-ethenylbenzenesulfonate and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione, graft (9CI) (CA INDEX NAME)

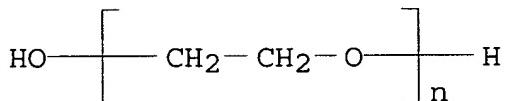
CM 1

CRN 31497-33-3
 CMF (C₂ H₄ O)_n C₄ H₈ O
 CCI PMS



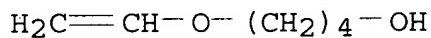
CM 2

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



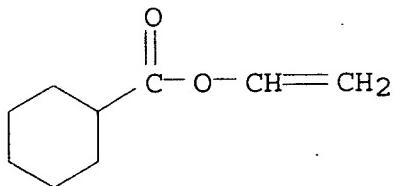
CM 3

CRN 17832-28-9
 CMF C₆ H₁₂ O₂



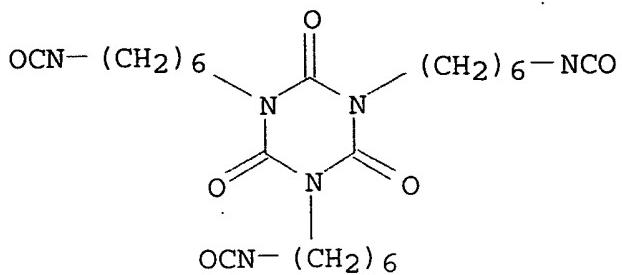
CM 4

CRN 4840-76-0
 CMF C₉ H₁₄ O₂

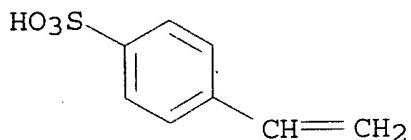


CM 5

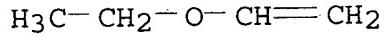
CRN 3779-63-3
 CMF C₂₄ H₃₆ N₆ O₆



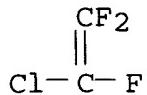
CM 6

CRN 2695-37-6
CMF C8 H8 O3 S . Na

CM 7

CRN 109-92-2
CMF C4 H8 O

CM 8

CRN 79-38-9
CMF C2 Cl F3

RN 199944-09-7 HCAPLUS

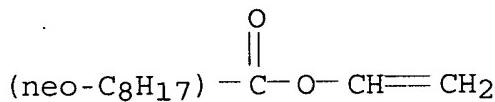
CN Butanedioic acid, sulfo-, C-methyl C-2-propenyl ester, ammonium salt, polymer with chlorotrifluoroethene, ethenyl cyclohexanecarboxylate, ethenyl neononanoate, 4-(ethenyloxy)-1-butanol, ethoxyethene, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione, graft (9CI) (CA INDEX NAME)

CM 1

CRN 54423-67-5

CMF C11 H20 O2

CCI IDS

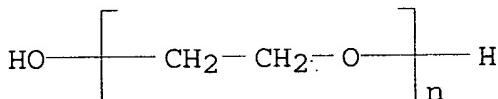


CM 2

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

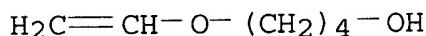
CCI PMS



CM 3

CRN 17832-28-9

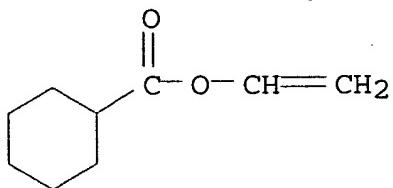
CMF C6 H12 O2



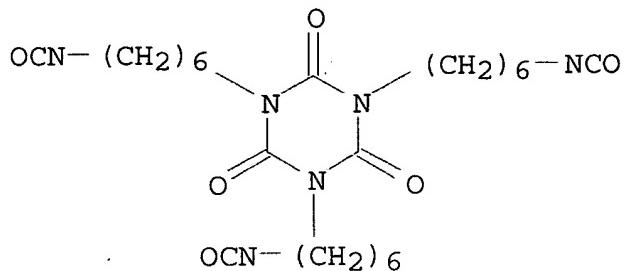
CM 4

CRN 4840-76-0

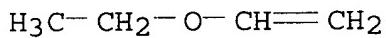
CMF C9 H14 O2



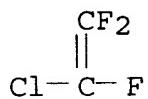
CM 5

CRN 3779-63-3
CMF C₂₄ H₃₆ N₆ O₆

CM 6

CRN 109-92-2
CMF C₄ H₈ O

CM 7

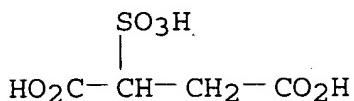
CRN 79-38-9
CMF C₂ Cl F₃

CM 8

CRN 199870-47-8
 CMF C8 H12 O7 S . H3 N
 CCI IDS

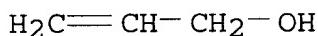
CM 9

CRN 5138-18-1
 CMF C4 H6 O7 S



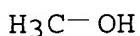
CM 10

CRN 107-18-6
 CMF C3 H6 O



CM 11

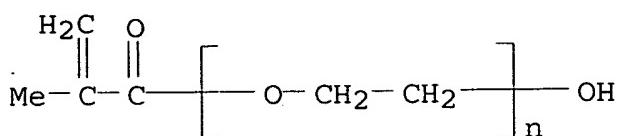
CRN 67-56-1
 CMF C H4 O



RN 199944-10-0 HCAPLUS
 CN Butanedioic acid, sulfo-, C-methyl C-2-propenyl ester, ammonium salt, polymer with 4-(ethenyloxy)-1-butanol, ethoxyethene, 1,1,2,3,3,3-hexafluoro-1-propene, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), .alpha.- (2-methyl-1-oxo-2-propenyl) -.omega.-hydroxypoly(oxy-1,2-ethanediyl), sodium 4-ethenylbenzenesulfonate and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione, graft (9CI) (CA INDEX NAME)

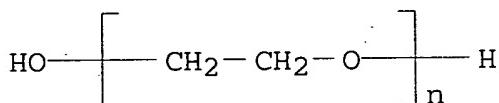
CM 1

CRN 25736-86-1
 CMF (C2 H4 O)n C4 H6 O2
 CCI PMS



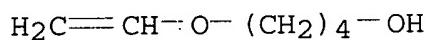
CM 2

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



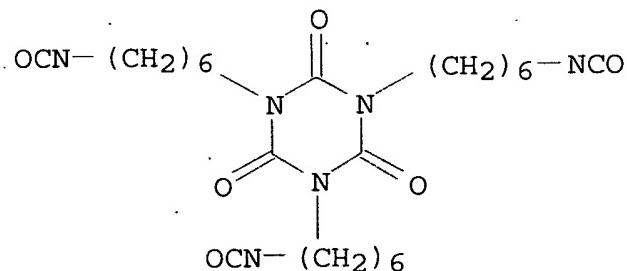
CM 3

CRN 17832-28-9
 CMF C₆ H₁₂ O₂



CM 4

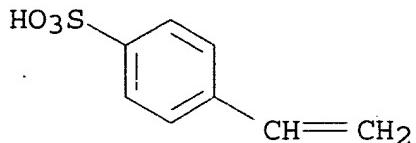
CRN 3779-63-3
 CMF C₂₄ H₃₆ N₆ O₆



CM 5

CRN 2695-37-6

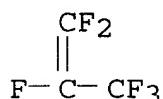
CMF C8 H8 O3 S . Na



● Na

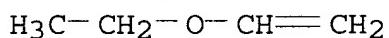
CM 6

CRN 116-15-4
CMF C3 F6



CM 7

CRN 109-92-2
CMF C4 H8 O

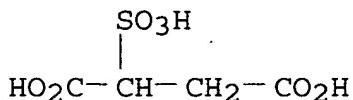


CM 8

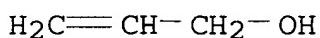
CRN 199870-47-8
CMF C8 H12 O7 S . H3 N
CCI IDS

CM 9

CRN 5138-18-1
CMF C4 H6 O7 S



CM 10

CRN 107-18-6
CMF C3 H6 O

CM 11

CRN 67-56-1
CMF C H4 O

IC ICM C09D175-04
 ICS B05D007-24; C08G018-61; C08G018-62; C08G018-79
 CC 42-10 (Coatings, Inks, and Related Products)
 IT 199733-11-4DP, Me ether 199733-13-6DP, Me ether 199733-15-8DP,
 Me ether 199733-16-9DP, Me ether 199733-17-0DP, Me ether
 199733-18-1DP, Me ether 199870-48-9DP, Me ether 199944-08-6DP,
 Me ether 199944-09-7DP, Me ether 199944-10-0DP,
 Me ether
 (silicate spot-contg. fluoropolymer-polyurethane coatings with
 good adhesion and soil resistance)

L73 ANSWER 8 OF 8 HCPLUS COPYRIGHT 2003 ACS on STN
 1982:7431 Document No. 96:7431 Adhesion of polyurethane ionomers on
 glass and thermoplastics. Lorenz, O.; Reinmoeller, K. H.
 (Fachhochsch. Aachen, Aachen, D-5100, Fed. Rep. Ger.). Kautschuk
 Gummi Kunststoffe, 34(10), 827-35 (German) 1981. CODEN: KGUKAC.
 ISSN: 0022-9520.

AB The adhesion to glass, a polyamide, poly(ethylene terephthalate) (I)
 [25038-59-9], or polyethylene [9002-88-4] is detd. for
 polyurethanes prep'd. from a polyester diol or polytetramethylene
 glycol, OCN(CH₂)₆NCO or a uretedione deriv. contg. NCO groups
 (isophorone diisocyanate dimer), H(NHCH₂CH₂)₂SO₃Na, and, in one
 case, glycerol monostearate (II). Glass cleaned with ultrasound or
 chromosulfuric acid gives the best adhesion. The adhesion to glass
 decreases rapidly in the presence of moisture. The adhesion to
 glass increases with increasing thickness (0.2-0.6 mm) of the

Polyurethane and with increasing temp. (20-120. degree.). Treatment of glass with (3-glycidyloxypropyl)trimethoxysilane [2530-83-8] or (3-aminopropyl)triethoxysilane [919-30-2] improves the adhesion during exposure of the polyurethane to moisture, but treatment with MeSi(OEt)₃ or H₂C:CHSi(OEt)₃ has little effect. The adhesion of the polyurethane contg. II (hydrophobic material) is similar to that of other polyurethanes in the presence of moisture. The polyurethanes adhere more strongly to a polyamide than to I or polyethylene.

IT 65328-15-6 80159-57-5 80162-98-7

80164-54-1

(adhesion of, to glass and thermoplastics)

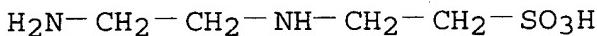
RN 65328-15-6 HCPLUS

CN Hexanedioic acid, polymer with 2-[(2-aminoethyl)amino]ethanesulfonic acid monosodium salt, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol (9CI) (CA INDEX NAME)

CM 1

CRN 34730-59-1

CMF C4 H12 N2 O3 S . Na

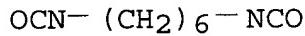


● Na

CM 2

CRN 822-06-0

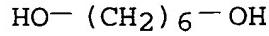
CMF C8 H12 N2 O2



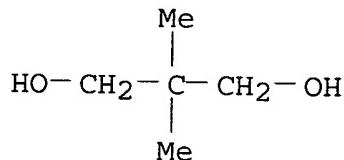
CM 3

CRN 629-11-8

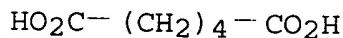
CMF C6 H14 O2



CM 4

CRN 126-30-7
CMF C5 H12 O2

CM 5

CRN 124-04-9
CMF C6 H10 O4

RN 80159-57-5 HCAPLUS

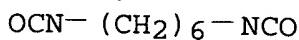
CN Hexanedioic acid, polymer with 2-[(2-aminoethyl)amino]ethanesulfonic acid monosodium salt, 2,3-dihydroxypropyl octadecanoate, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol (9CI) (CA INDEX NAME)

CM 1

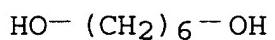
CRN 34730-59-1
CMF C4 H12 N2 O3 S . Na

● Na

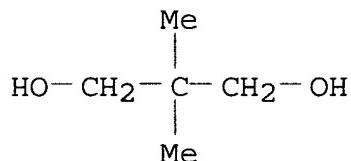
CM 2

CRN 822-06-0
CMF C8 H12 N2 O2

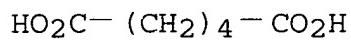
CM 3

CRN 629-11-8
CMF C6 H14 O2

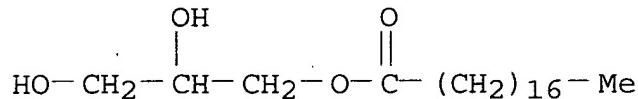
CM 4

CRN 126-30-7
CMF C5 H12 O2

CM 5

CRN 124-04-9
CMF C6 H10 O4

CM 6

CRN 123-94-4
CMF C21 H42 O4

RN 80162-98-7 HCAPLUS

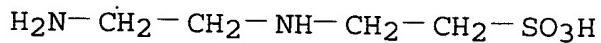
CN Hexanedioic acid, polymer with 2-[(2-aminoethyl)amino]ethanesulfonic acid monosodium salt, 1,3-bis[(5-isocyanato-1,3,3-trimethylcyclohexyl)methyl]-1,3-diazetidine-2,4-dione, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol (9CI) (CA INDEX)

NAME)

CM 1

CRN 34730-59-1

CMF C4 H12 N2 O3 S . Na

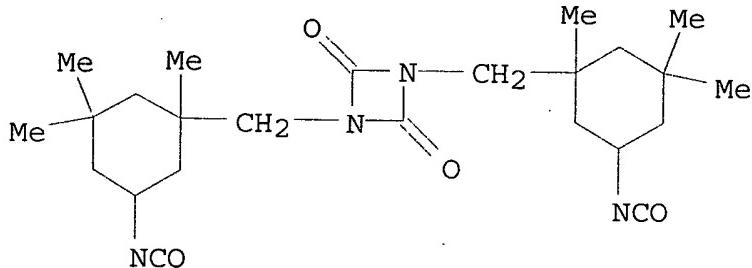


● Na

CM 2

CRN 23370-68-5

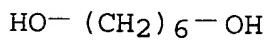
CMF C24 H36 N4 O4



CM 3

CRN 629-11-8

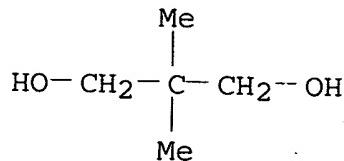
CMF C6 H14 O2



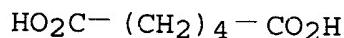
CM 4

CRN 126-30-7

CMF C5 H12 O2



CM 5

CRN 124-04-9
CMF C6 H10 O4

RN 80164-54-1 HCAPLUS

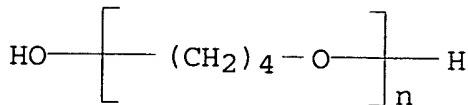
CN Ethanesulfonic acid, 2-[(2-aminoethyl)amino]-, monosodium salt, polymer with 1,6-diisocyanatohexane and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 34730-59-1
CMF C4 H12 N2 O3 S . Na

● Na

CM 2

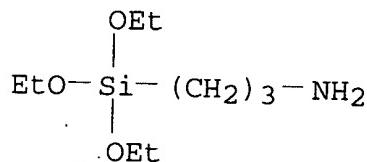
CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS

CM 3

CRN 822-06-0
CMF C8 H12 N2 O2

OCN—(CH₂)₆—NCO

IT 919-30-2
(coupling agents, for glass and polyurethane ionomers)
RN 919-30-2 HCAPLUS
CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



CC 37-5 (Plastics Manufacture and Processing)
IT 65328-15-6 80159-57-5 80162-98-7
80164-54-1
(adhesion of, to glass and thermoplastics)
IT 919-30-2 2530-83-8
(coupling agents, for glass and polyurethane ionomers)